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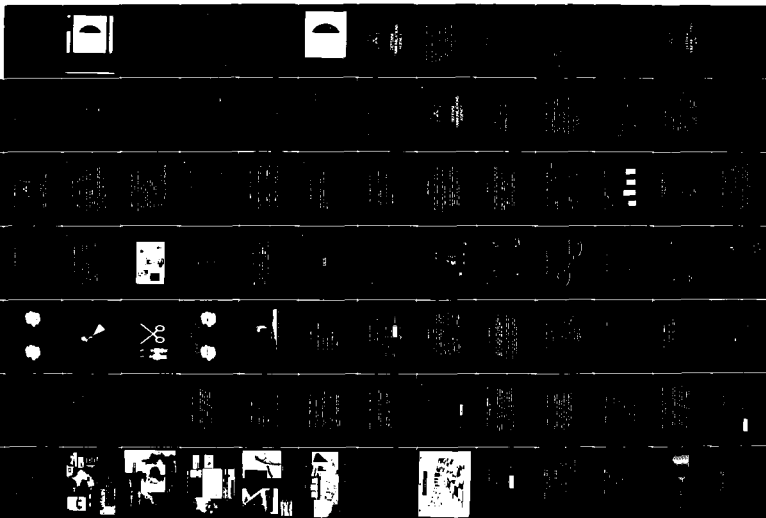
AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS
ASSOCIATION) SYMPOSIUM (2ND... (U) DEFENSE COMMUNICATIONS
AGENCY ARLINGTON VA APR 88

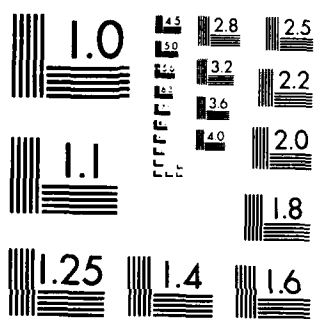
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AFCEA Spring '88 Symposium "DCA Forecast To Industry"

Presented
by the



Defense Communications Agency

In coordination with
AFCEA International
and the
NOVA Chapter

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Marriott Crystal Gateway
Arlington, Virginia
31 MARCH - APRIL 1, 1988

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A NOTE OF THANKS

There are many people who are responsible for making this second annual DCA Forecast to Industry a success. As is usual with an effort of this scope, there are a few whose leadership and support have been essential.

Of course the DCA Forecast to Industry depends primarily upon the leadership of DCA. We would like to recognize LTG John T. Myers, the Director, DCA and Manager, NCS, whose vision and leadership made it a success. We also want to thank Mr. Ray Martone, DCA Competition Advocate, for his untiring efforts, and Ms. Susan Jimenez, the Activity Competition Advocate, who ensured that the needs of industry were carefully considered. A special thanks to each of the DCA speakers who shared their goals and programs with industry.

Another group that deserves recognition is the AFCEA/NOVA Chapter with Yale Weatherby, AYDIN, Chapter President. The AFCEA/NOVA team that provided direct support includes:

Curt Bassett, PRC, who provided outstanding support as the
AFCEA/NOVA Vice President for Special Events

Bob Lord, ELS, who handled finances

Gale Nellans, Geodynamics, who worked registration and security

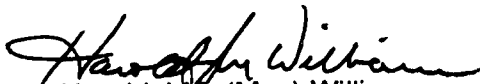
George Bafundo, GTE, who managed publicity

Steve Rudd, Space Applications Corporation, who handled general
support and publications

Ms. Bev Sampson, DCA, and Major Sam Robinson, USAF, who made
protocol arrangements

Steve Carrier, PRC, who helped arrange facilities and food
service

Let me also thank the many other people who contributed to the success of this Symposium. We hope it has been useful to industry, as well as to the DCA.


Harold J.M. (Mac) Williams
Co-chairman
Vice President, PRC

DCA Forecast to Industry

— Agenda —

Thursday, March 31

- 0730 Registration and Continental Breakfast
- 0800-0820 Opening Remarks
Harold J.M. Williams, Co-chairman
Division Vice President, C3 Systems
Planning Research Corporation
- AFCEA Welcome
Gen John Wickham, Jr., USA (Ret.)
President, AFCEA International
- 0820-0835 DCA/NCS Welcome
Lt Gen John T. Myers, USA
Director, DCA; Manager NCS
- 0835-0945 DCA/NCS Organizational Overview
Ms. Susan Jimenez
Activity Competition Advocate
- 0845-0915 Resources & Planning Overview
Mr. John Beach
Director, Resource Management Directorate, DCA
- 0915-0935 R&D Technology
Dr. Gordon K. Soper
Associate Director for Engineering and Technology
- 0935-1000 BREAK
- 1000-1020 Contract Overview
Mr. Raymond Martone
Agency Competition Advocate, DCA
- 1020-1050 Defense Communications System Organization Overview
Brig Gen Phillip E. Bracher, USAF
Director, DCSD, DCA
- 1050-1120 Joint Data Systems Support Center Overview
Mr. Glenn Stevener
Director, JDSSC, DCA
- 1120-1150 National Communications System Overview
Mr. Ben Morriss
Deputy Manager, NCS
- 1200-1330 LUNCH- Honorable Robert Costello, Keynote Speaker
- 1330-1400 Joint Tactical Command, Control and Communications Agency
BG George A. Bombel
Director, JTC3A, DCA
- 1400-1440 Center for Command, Control and Communications System Overview
Dr. David T. Signori, Jr.
Director, C4S, DCA
- 1440-1525 Defense Commercial Communications Office Overview
COL Bill Penny, USAF
Commander, DECCO, DCA
- 1525-1540 BREAK
- 1540-1600 Small Business Brief
Mr. Glen Moore
Deputy Director, Small & Small
Disadvantaged Business Utilization
Program, DCA
- 1600-1630 Closing Remarks
- 1645-1900 NO HOST SOCIAL

Friday, April 1

- 0800-0810 Administrative Remarks
- 0810-0930 DCSD Program Overview
o Defense Data Network (DDN)
o Defense Switched Network (DSN)
o Defense Satellite Communications System (DSCS)
- Questions and Answers
- 0930-0945 BREAK
- 0945-1100 JDSSC Program Overview
o Analytical Support to OSD
o ADP Support to OJCS
o WWMCCS ADP Support
- Questions and Answers
- 1100-1200 JTC3A Program Overview
o Joint Test Element SETA
o Joint Test Center SETA
o Joint Test Center Operation and Maintenance
- Questions and Answers
- 1200-1400 LUNCH- Lt Gen John T. Myers, Guest Speaker
- 1400-1430 NCS Program Overview
o National Emergency Telecommunications Service (NETS)
- Questions and Answers
- 1430-1500 C4S Program Overview
o Command Center Improvement Program
o Meteor Burst Communications
- Questions and Answers
- 1500-1520 BREAK
- 1520-1620 C4S Continued
o MILSATCOM Architecture for the 21st Century
o DCS Architecture for the 21st Century
o USCINTRANSOM C3 Architecture
- Questions and Answers
- 1620-1630 CLOSING REMARKS



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Special Notice

The announcement below, which was made several times during the course of the program, also applies to the key vignettes used in the DCA Forecast to Industry, held at the Crystal Gateway Marriott, 31 March and 1 April 1988.

These briefings are for informational purposes only and do not represent any commitment on the part of the Defense Communications Agency to procure any further system or to enter into any contracts in an area which may be covered by the briefings or alluded to by any participant at the briefings. Additionally, programs being briefed may not be available for foreign participation.

Please note the funding data presented in these briefings are the total program/project estimated cost and are not representative of the funding which may be obligated for any given contract.

31 March 1988

AFCEA Spring '88 Symposium "DCA Forecast To Industry"

Presented

by the

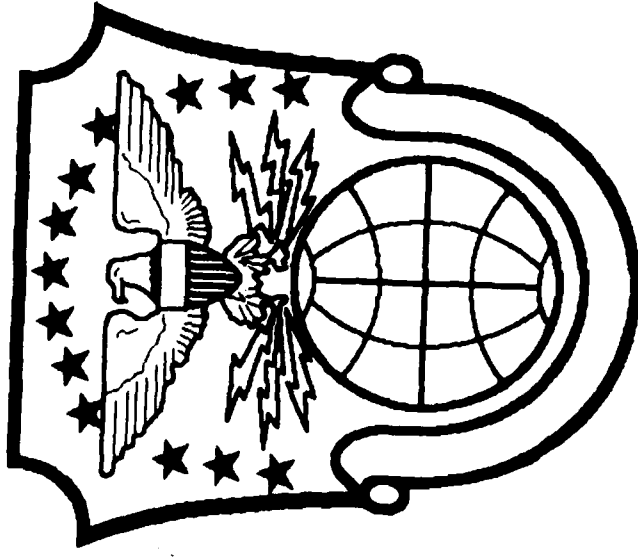


Defense Communications Agency

In coordination with
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**Marriott Crystal Gateway
Arlington, Virginia
31 MARCH - APRIL 1, 1988**



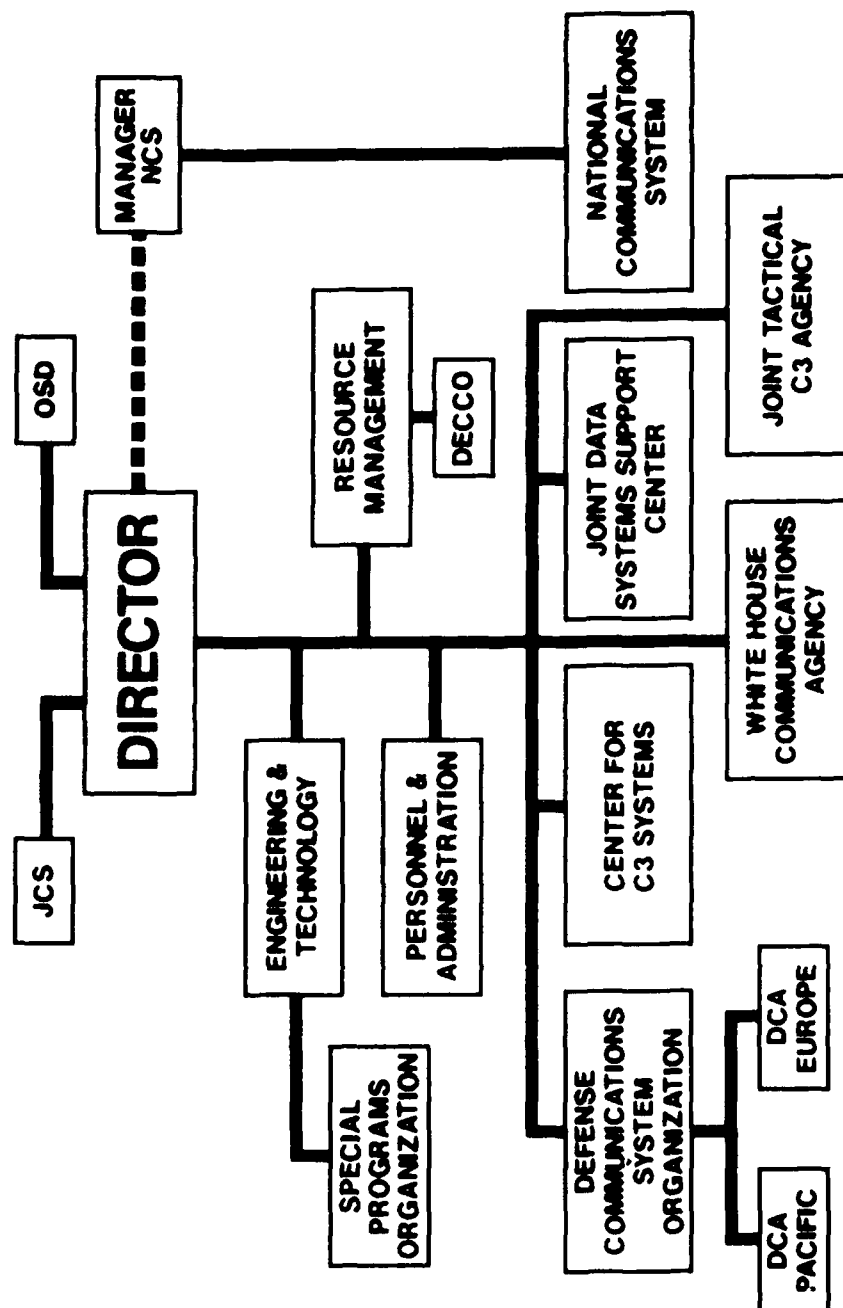
DEFENSE COMMUNICATIONS AGENCY

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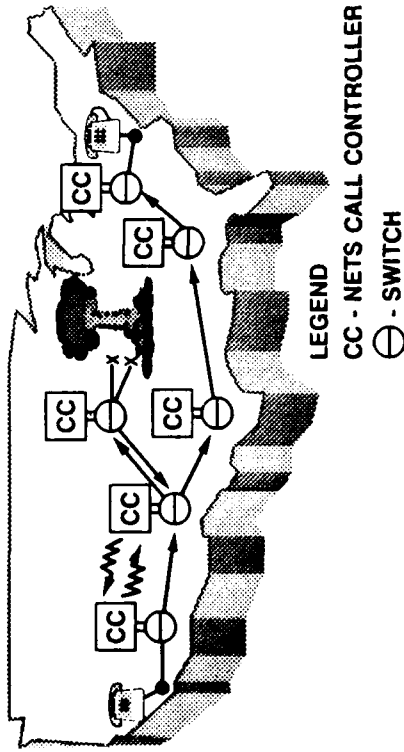
WHAT WE HAVE IN STORE FOR YOU

- **RESOURCE AND PLANNING OVERVIEW**
- **R&D TECHNOLOGY**
- **COMPETITION ADVOCATE, SMALL BUSINESS CONTRACT OVERVIEW**
- **DEPUTY DIRECTORS OVERVIEW OF THEIR DIRECTORATES/ PROGRAMS - DECCO OVERVIEWS**
- **SPECIFIC PROGRAM BRIEFINGS FROM EACH DIRECTORATE**
- **KEY NOTE LUNCHEON ADDRESS EACH DAY**
 - UNDER SECRETARY FOR ACQUISITION - HONORABLE DR. COSTELLO
 - DIRECTOR, DCA/MANAGER NCS - LIEUTENANT GENERAL, JOHN T. MYERS, USA

DCA ORGANIZATION



NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE



FUNCTIONAL DESCRIPTION OF NETS

- SUPPORTS EXECUTIVE AGENCIES DURING NATIONAL EMERGENCIES
- EXPLOITS SURVIVING ASSETS OF PSN
- CIRCUMVENTS LIMITED ROUTING OF PSN
- DISTRIBUTED CALL CONTROLLING MECHANISMS
- MULTIPLE CARRIERS, LOCAL OPERATING COMPANIES
- WILL SUPPORT VOICE AND 2.4KB/S DATA

CONTRACT DATA

CONTRACTING AGENCY: DECCO
POINT OF CONTACT: DON MILLER
LOCATION: SCOTT AFB
PRIME CONTRACT PERIOD:
DEC 90 - DEC 95
PLUS OPTION YEARS

MILESTONES

- RELEASE OF RFP AUG 89
- CONTRACT AWARD DEC 90
- IOC DEC 93
- FOC FY 96

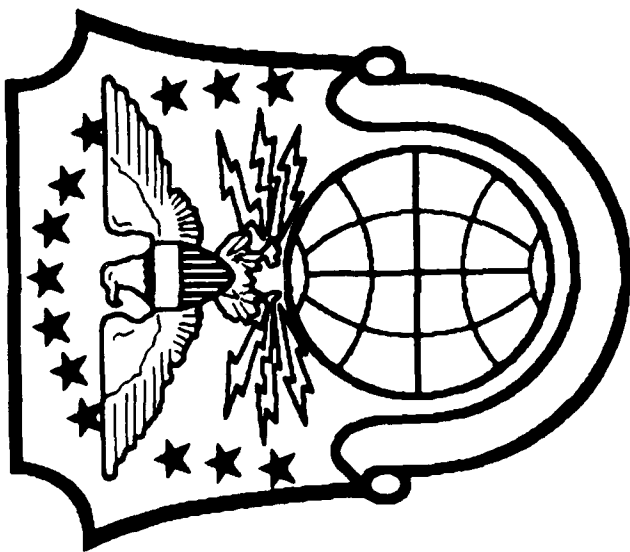
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TELECOMMUNICATIONS ARCHITECTURE MAJOR CONTRACTUAL EFFORTS

CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN & HAMILTON	> 10M	MAY 87 - MAY 90
DCA 100-87-C-0101	SHARES	C-CUBED	< 1M	JUN 87 - JUN 88
DCA 100-86-C-0015	NETS, TASK IV	AT&T	> 10M	JAN 86 - APR 88
DCA 100-87-C-0139	NETS APPLICATION TO NTI DM.S FAMILY	NTI	< 10M	SEP 87 - MAR 90
DCA 100-87-C-0142	US SPRINT SUPPORT TO NETS	US SPRINT	< 3M	SEP 87 - MAR 90
	MCI SUPPORT TO NETS	MCI	< 3M	FEB 88 - AUG 90
	NETS MAINTENANCE AND CONFIGURATION MGMT	NETWORK SOLUTIONS	< 5M	JAN 88 - JAN 91
DCA 100-87-C-0042	CSI PILOT PROGRAM	CONTEL	< 5M	AUG 87 - SEP 94
DCA 100-87-C-0043	CSI ITT&C (RCA)	CONTEL	< 10M	AUG 87 - SEP 94

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DEFENSE COMMUNICATIONS AGENCY

074-1-FEB 88-RC

RESOURCE MANAGEMENT DIRECTORATE

DEFENSE COMMUNICATIONS AGENCY TOTAL FUNDING

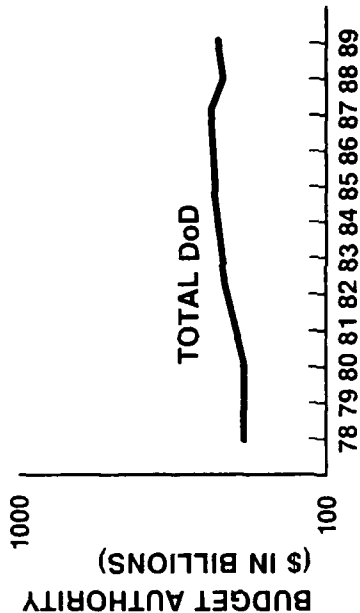
(\$ IN MILLIONS)

	<u>FY 1984</u>	<u>FY 1985</u>	<u>FY 1986</u>	<u>FY 1987</u>	<u>FY 1988</u>	<u>FY 1989</u>
					APPRO-	AMENDED
					PRIATION	BUDGET
DIRECT APPROPRIATIONS	\$ 410	\$ 409	\$ 466/1	\$ 478	\$ 488	\$ 531
EXTERNAL FUNDING OF WORK	174	320	338	228	330	330
INDUSTRIAL FUND (COMM)	889	908	1,110	1,225	1,224	1,320
DECCO OVERHEAD						
(INCLUDED ABOVE)	(7)	(11)	(11)	(13)	(17)	(17)
TOTAL FUNDING	\$1,473	\$1,637	\$1,914	\$1,931	\$2,042	\$2,181

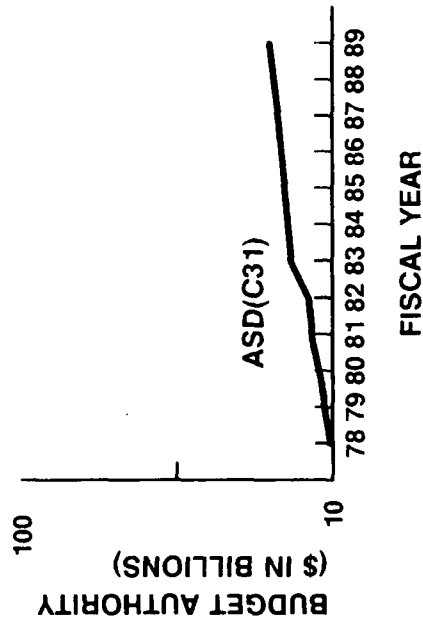
/1 THE BUDGET FOR THE NEWLY-FORMED
JTC³A WAS FIRST REFLECTED IN FY 1986
APPROPRIATIONS ACT.

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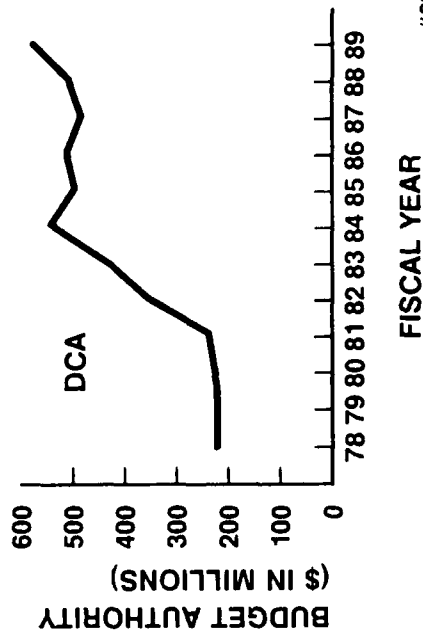
DoD/DCA BUDGET AUTHORITY (FY 1988 CONSTANT DOLLARS)



FISCAL YEAR



FISCAL YEAR



FISCAL YEAR

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DEFENSE COMMUNICATIONS AGENCY BUDGET SUMMARY BY CATEGORY

(AS OF FEB 1988)
(\$ IN MILLIONS)

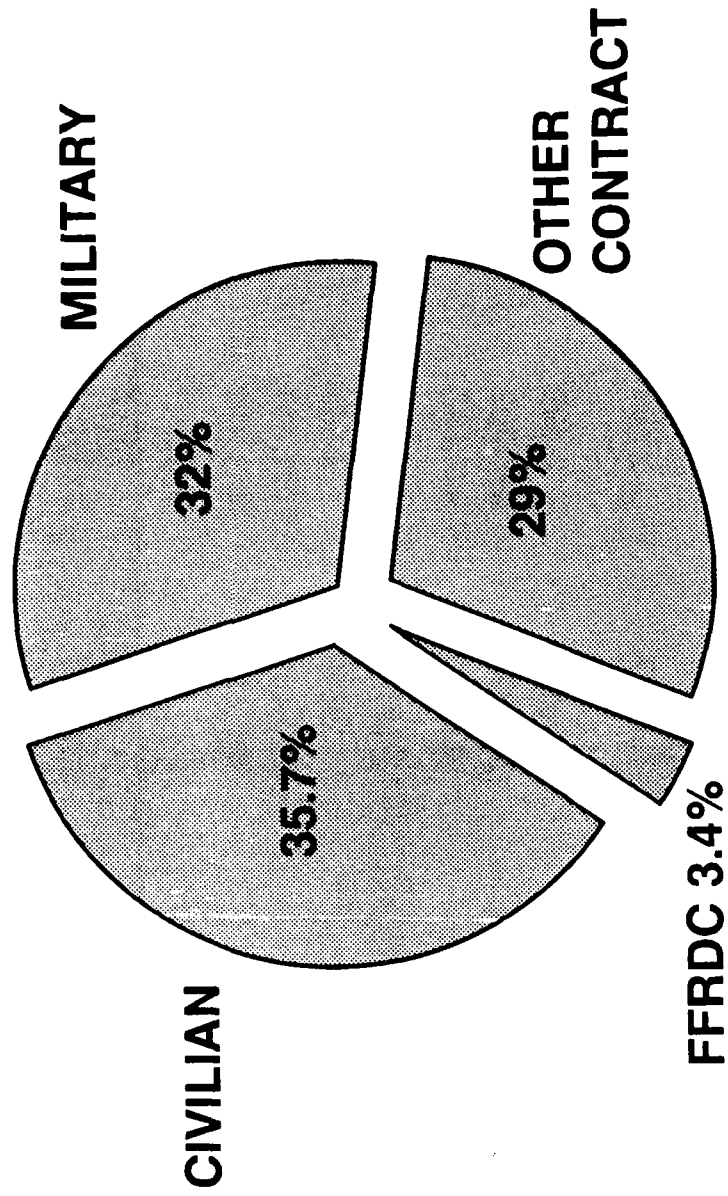
	<u>FY 1987</u>	<u>FY 1988</u>	<u>FY 1989</u>
CIVILIAN PAY	87.8	92.6	93.4
OPERATING EXPENSES	88.0	106.8	100.8
CONTRACTS	<u>301.8</u>	<u>288.9</u>	<u>336.9</u>
TOTAL	477.6	488.3	531.1

	<u>CHANGE FY 1987-1988</u>	<u>CHANGE FY 1988-1989</u>
CIVILIAN PAY	+ 4.8	+ .8
OPERATING EXPENSES	+ 18.8	-6.0
CONTRACTS	<u>-12.9</u>	<u>+ 48.0</u>
TOTAL	+ 10.7	+ 42.8

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DCA EMPLOYMENT MIX

FY 1987



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EMPLOYMENT MIX OF DCA

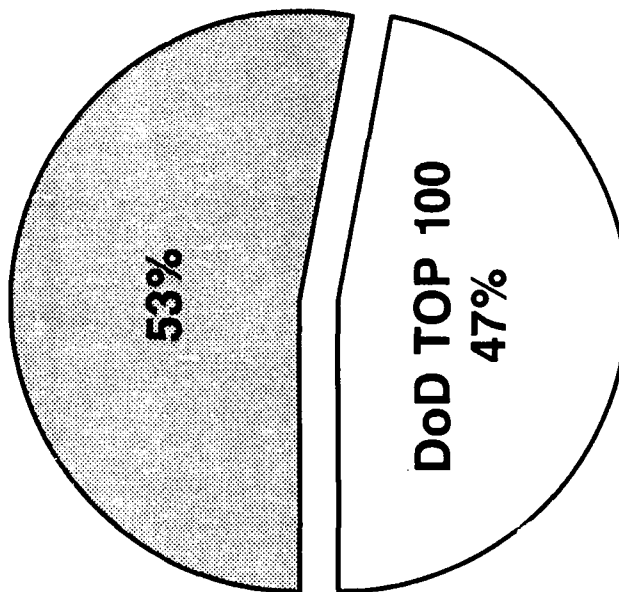
MILITARY	FY87	FY88	FY89
AUTHORIZED	2,080	2,135	2,141
BUDGET (\$K)	\$96,701	\$98,302	\$98,272
PER CAPITA	\$46,491	\$46,043	\$45,900
CIVILIAN			
WORKYEARS	2,316	2,348	2,349
BUDGET (\$K)	\$96,492	\$101,714	\$102,849
PER CAPITA	\$41,663	\$43,319	\$43,784
FCRC			
TSY	218.9	219.8	199.5
BUDGET (\$K)	\$31,417	\$34,115	\$31,794
PER CAPITA	\$143,520	\$155,209	\$159,368
OTHER CONTRACT			
TSY	1881	1755	1991
BUDGET (\$K)	\$212,791	\$205,696	\$239,647
PER CAPITA	\$113,127	\$117,206	\$120,365

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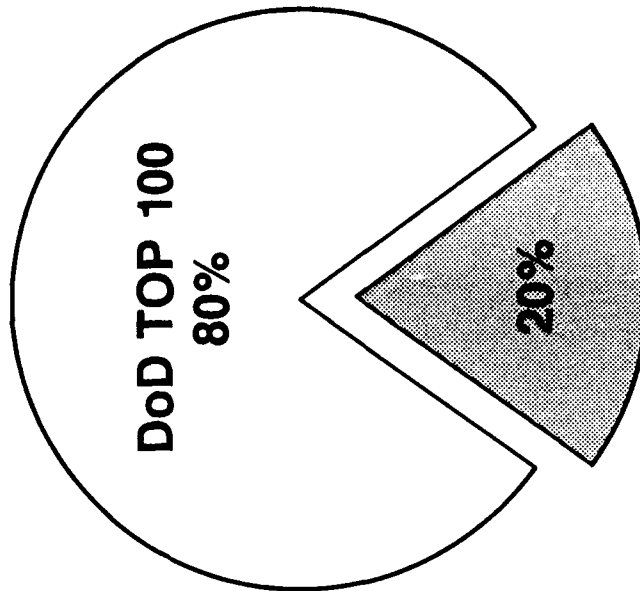
WHERE DoD DOLLARS ARE SPENT TOP 100 DEFENSE CONTRACTORS

FY 1987

DCA



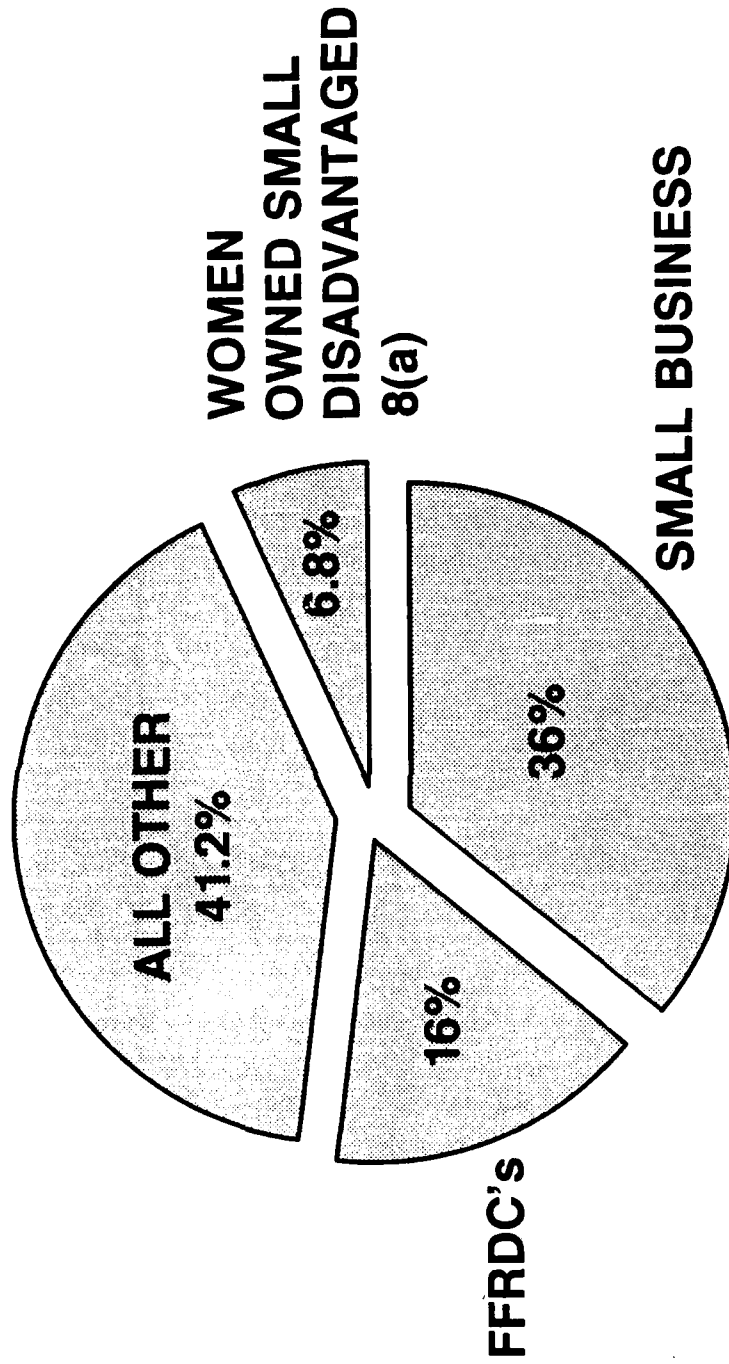
DoD



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TOTAL AWARDS

FY 1987



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DCA CONTRACT ADMINISTRATION FY87

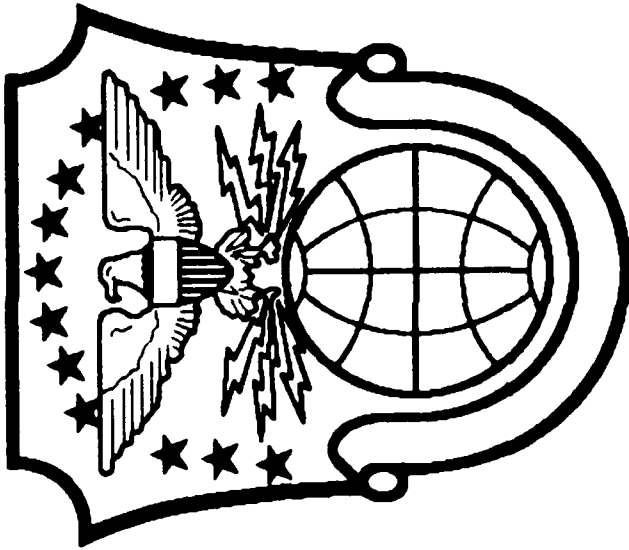
DCA HEADQUARTERS	\$ 250 MILLION
DECCO	\$1.2 BILLION

#094-CV

RESOURCE MANAGEMENT DIRECTORATE ACQUISITION INITIATIVES

- **RESOURCE DIRECTORATE REORGANIZATION**
 - ESTABLISHMENT OF ACQUISITION ASSOCIATE DEPUTY DIRECTOR
 - EMPHASIS ON "ACQUISITION" VS "PROCUREMENT"
 - SINGLE DCA FOCAL POINT FOR ACQUISITION POLICY
- **DCA ACQUISITION POLICY REVIEW**
 - PURPOSE: STREAMLINE ACQUISITION PROCESS - CUT DOWN ON PROCUREMENT LEADTIME
 - REMOVE OVERLY RESTRICTIVE DCA REGULATIONS
 - INCREASE FLEXIBILITY WITHOUT SACRIFICING CONTROL
 - STUDY OF THE ACQUISITION REVIEW PROCESS
 - PUBLISH "HOW TO" GUIDES AND PROCEDURES TO STANDARDIZE PROCESS
- **CONTRACTING OFFICER REPRESENTATIVES (COR)**
 - RECOGNITION OF COR AS ACQUISITION FORCE MULTIPLIER
 - COR CONFERENCE (16 DECEMBER)
 - EMPHASIS ON TRAINING
 - CUSTOMER ASSISTANCE PROGRAM IN DIRECTORATES TO ASSIST IN PROCESSING ACQUISITION PACKAGES
- **MODEL INSTALLATION PROGRAM WITH DLA**

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DEFENSE COMMUNICATIONS AGENCY

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**OFFICE OF THE
ASSOCIATE DIRECTOR FOR
ENGINEERING & TECHNOLOGY**

ROLE OF TECHNOLOGY IN DCA

- **ESTABLISHED NEW POSITION OF ASSOCIATE DIRECTOR FOR ENGINEERING AND TECHNOLOGY**
- **CONDUCT OVERSIGHT OF DCA'S ENGINEERING AND TECHNOLOGY PROGRAMS**
- **PROVIDE INTEGRATING/HORIZONTAL VIEW ACROSS DIRECTORATE BOUNDARIES**
- **INFLUENCE DIRECTION OF FUTURE C3 TECHNOLOGY**
- **ASSESS STATE-OF-THE-ART IN C3 RELATED 21ST CENTURY TECHNOLOGY**
- **TRANSITION EMERGING TECHNOLOGY INTO OPERATIONAL USE**

055-2-FEB 88-RC

ISSUES

- **APPROPRIATE USE OF LIMITED RESOURCES**
- **BALANCE BETWEEN NEAR-TERM OPERATIONAL OBJECTIVES AND LONG-TERM GOALS OF OUR R&D PROGRAM**
- **PRESSING OPERATIONAL PROBLEMS**
- **EFFECTIVE USE OF R&D SPONSORED BY OTHERS IN OUR COMMUNITY**

055-3-FEB 00-RC

BUCHSBAUM REPORT

● DEFENSE SCIENCE BOARD TASK FORCE ON C2 MANAGEMENT (1987)

● RECOMMENDATIONS:

- STRENGTHEN CAPABILITIES FOR C3 TESTING/EXERCISES**
- PROVIDE FOR CINCS TO UPGRADE AND EVOLVE THEIR C3 CAPABILITIES**
- IMPROVE ACQUISITION POLICIES FOR C3 SYSTEMS**
- STRENGTHEN C3 EDUCATION AND TRAINING**
- DESIGNATE AN AGENT TO ESTABLISH AN OVERARCHING C3 ARCHITECTURE. WE ARE DETERMINED THAT DCA SHOULD BE THE DESIGNATED AGENT.**

INITIATIVES

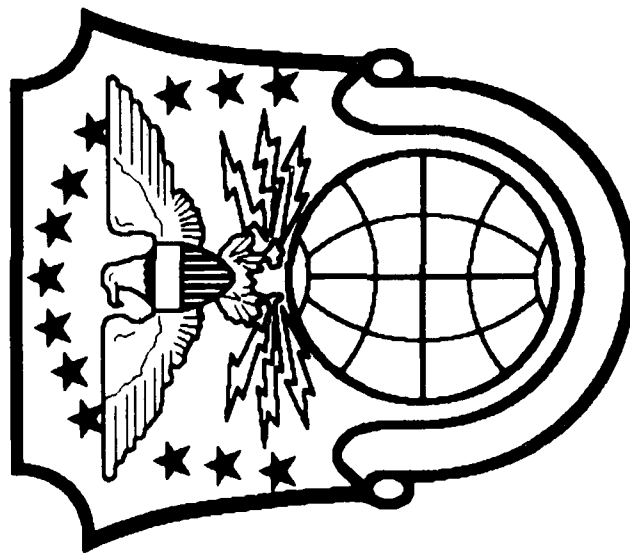
- INVEST SOME R&D RESOURCES TO PROVIDE INCENTIVES TO OTHERS IN DOD TO TRANSITION THEIR TECHNOLOGY INTO DCA'S MISSION AREA
 - CEMENT JOINT EFFORTS WITH SERVICE LABORATORIES AND DEFENSE AGENCIES
 - PROMOTE TECHNOLOGY THRUSTS SUCH AS RAPID PROTOTYPING AND TEST-BEDDING
 - ENCOURAGE EFFECTIVE USE OF NON-DEVELOPMENTAL ITEMS
- JOINT DIRECTORS OF LABORATORIES' TECHNOLOGY PANEL FOR C3
 - PROMOTE COOPERATION IN R&D AMONG SERVICE C3 LABS
 - STRENGTHEN INTELLECTUAL BASE FOR C2 - BUCHSBAUM
 - DEVELOP DISTRIBUTED C3 TEST BED - "SIMNET"
 - DCA MEMBER OF ADVISORY GROUP
- DCA C3 TECHNOLOGY ASSESSMENT PROGRAM
 - GREW FROM ASD (C3I) TASKING
 - PLAN FOLLOW-ON NOV 88 CONFERENCE

055-5-FEB 88-RC

SUMMARY

- WORK IN PARTNERSHIP WITH INDUSTRY
 - CONTINUE INVITING INDUSTRY TO JOIN US IN C3 TECHNOLOGY ASSESSMENT WORKSHOPS AND MEETINGS
 - PROPOSE AND REVIEW IR&D PROGRAMS RELEVANT TO THE C3 MISSION OF DCA
 - PROVIDE A CONDUIT FOR TRANSITIONING INDUSTRY NON-DEVELOPMENTAL ITEM SOLUTIONS TO OUR C3 PROBLEMS
 - PROVIDE TEST BEDDING FACILITIES FOR INDUSTRY-PROPOSED SOLUTIONS TO C3 PROBLEMS IN A SIMULATED BUT REALISTIC ENVIRONMENT
- LEVERAGE OUR LIMITED R&D RESOURCES BY AN "OUTREACH PROGRAM" USING CREATIVE MECHANISMS BRINGING YOUR MODERN TECHNOLOGY TO BEAR ON OUR TOUGH C3 PROBLEMS

DEFENSE COMMUNICATIONS AGENCY



OFFICE OF AGENCY COMPETITION ADVOCATE & DIRECTOR OF SMALL BUSINESS

072-1-FEB 88-RC

BACKGROUND

- **COMPETITION IN CONTRACTING ACT (CICA)
ENACTED BY CONGRESS JULY 1984**
- **EFFECTIVE DATE OF CICA 1 APRIL 1985**
- **CREATED NEW EMPHASIS ON COMPETITION**
- **CREATED TWO NEW POSITIONS BY LAW**
 - **SENIOR PROCUREMENT EXECUTIVE (SPE)**
 - **COMPETITION ADVOCATE (CA)**
- **“OTHER THAN FULL AND OPEN COMPETITION”
WILL BE JUSTIFIED IN WRITING AND APPROVED**
- **AUTHORITIES THAT PERMIT “OTHER THAN FULL
AND OPEN COMPETITION”**

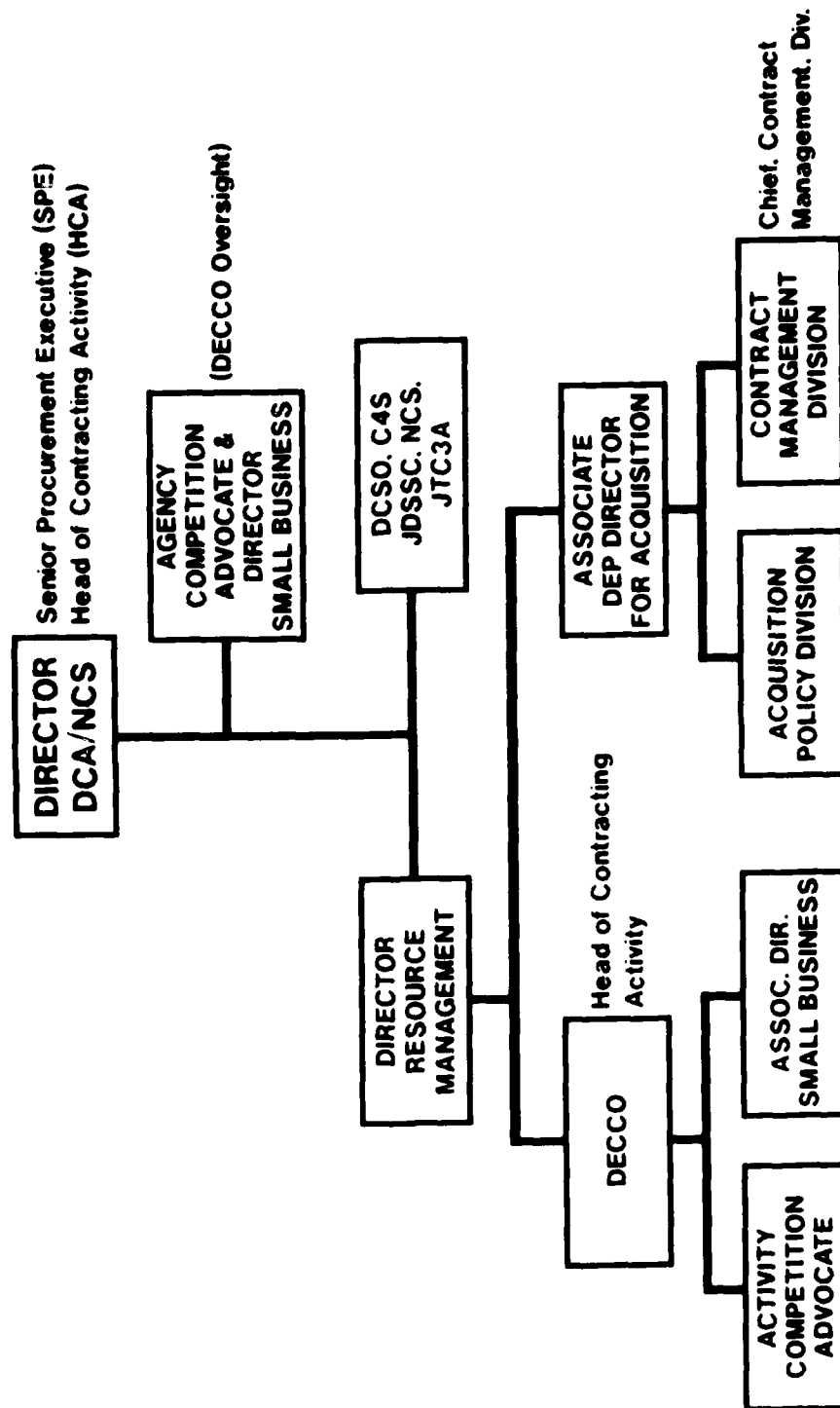
COMPETITION IN CONTRACTING ACT (CICA)

COMPETITION ADVOCATE - DUTIES & RESPONSIBILITIES

- 1. PROMOTE FULL AND OPEN COMPETITION**
- 2. REVIEW CONTRACT OPERATIONS AND REPORT TO SPE**
 - OPPORTUNITIES FOR COMPETITION**
 - UNNECESSARY RESTRICTION ON COMPETITION**
- 3. SUBMIT ANNUAL REPORT TO SPE DESCRIBING**
 - ADVOCATES ACTIVITIES, ANY BARRIERS**
 - NEW INITIATIVES, ANY BARRIERS**
 - ACQUISITION TRAINING AND RESEARCH**
- 4. RECOMMEND AGENCY PLANS AND GOALS TO SPE**
- 5. RECOMMEND SYSTEM OF RECOGNITION AND AWARDS**
- 6. CHALLENGE BARRIERS TO COMPETITION INCLUDING UNNECESSARY
DETAILED SPECIFICATIONS AND RESTRICTED STATEMENTS OF NEED**

072-3-FEB 88-RC

DCA ACQUISITION STRUCTURE



DCA COMPETITION ADVOCATES

**AGENCY COMPETITION
ADVOCATE**

**RAY MARTONE
(202) 692-5358**

**ACTIVITY COMPETITION
ADVOCATE - HQS**

**SUSAN JIMENEZ
(202) 692-5358**

**ACTIVITY COMPETITION
ADVOCATE - DECCO**

**BILL HECHT
(618) 256-3346**

OBJECTIVE OF CICA

OBTAIN THE BEST QUALITY PRODUCTS
FOR THE GOVERNMENT. AT THE BEST PRICE.
BEST VALUE

AREA OF MAJOR FOCUS

- **LONG RANGE ACQUISITION PLANNING
AND STRATEGIES**
- **DAY TO DAY REVIEW AND APPROVAL**
- **OMBUDSMAN**

072-7-FEB 88-RC

OMBUDSMAN

- **MEET WITH INDUSTRY REPRESENTATIVES**
 - **INTRODUCE COMPANIES TO ORGANIZATIONS**
- **RESEARCH INDUSTRY COMPLAINTS (PRE PROTEST)**
 - **FORMAL AND INFORMAL**
- **ACTIVELY REVIEW THE ACQUISITION PROCESS TO**
 - **ENSURE FAIRNESS WHICH PROMOTES GOOD COMPETITION**
 - **PROMOTE GOOD RELATIONS WITH OUR INDUSTRIAL PARTNERS**

CONTACTS

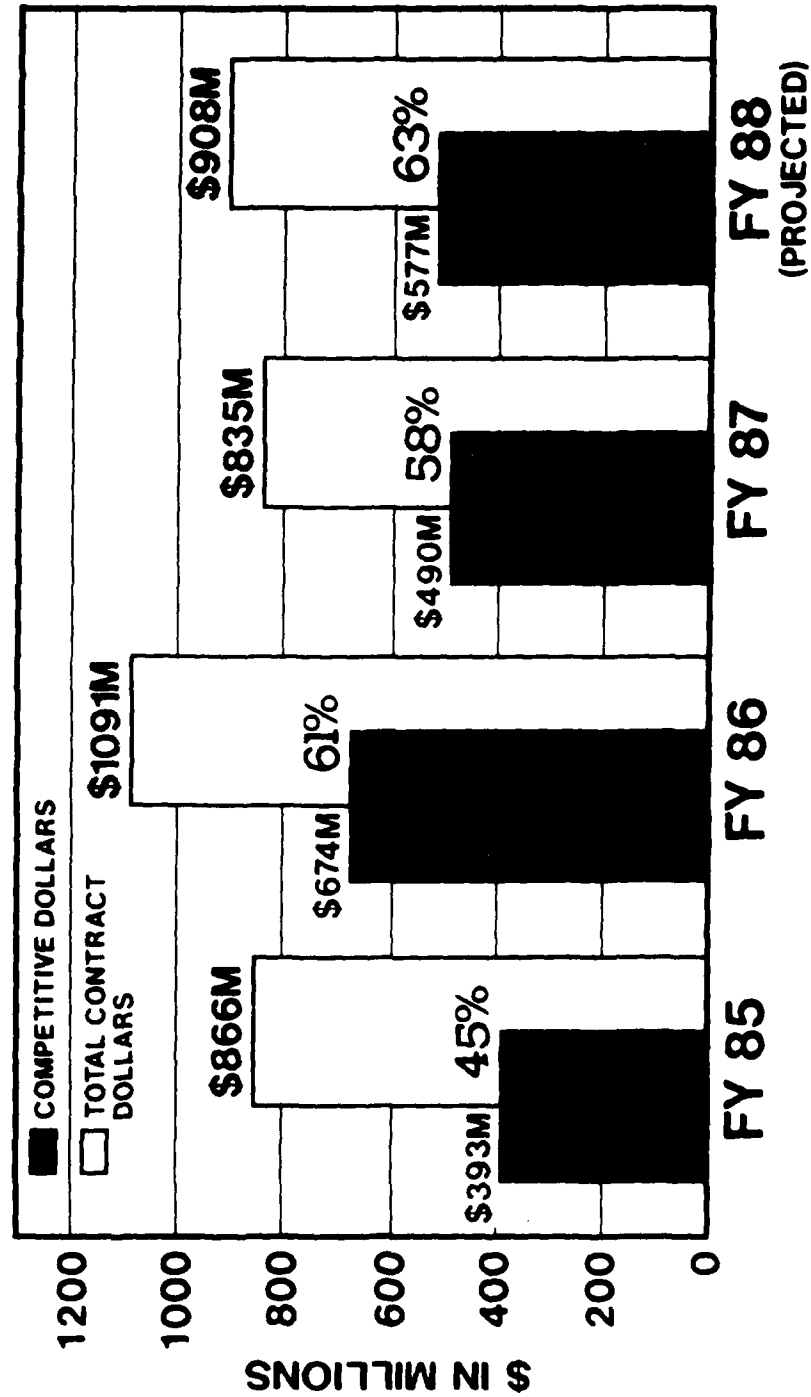
- **ONCE COMMERCE DAILY BULLETIN (CDB) ISSUED,
ALL DISCUSSION THRU CONTRACTING OFFICER**
- **INFORMAL PROTEST, COMPLAINTS, ETC WHICH
INHIBIT OR EFFECT COMPETITION**
 - **1ST DIRECTED TO CONTRACTING OFFICER (CO)
FOR RESOLUTION**
 - **IF NOT RESOLVED, OR AUTONOMY REQUIRED,
CONTACT ACTIVITY OR AGENCY COMPETITION
ADVOCATE**

HQ DCA - POINTS OF CONTACT

<u>ORGANIZATION</u>	<u>NAME</u>	<u>TELEPHONE</u>
DEFENSE COMMUNICATIONS SYSTEM ORGANIZATION (DCSO)	AL HOLLOWAY	746-0722
JOINT DATA SYSTEMS SUPPORT CENTER (JDSSC)	CHUCK GREEN	692-0303
CENTER FOR COMMAND, CONTROL & COMMUNICATIONS SYSTEMS (C4S)	LES STRAUB	692-5527
NATIONAL COMMUNICATIONS SYSTEM (NCS)	MAJ. NICHOLAS ANDRE	692-6929

072-10-FEB 88-RC

DEFENSE COMMUNICATIONS AGENCY COMPETITIVE GOALS



072-11-FEB 88-RC

ACQUISITION INFORMATION FOR INDUSTRY

- 1ST FORECAST TO INDUSTRY
 - ELECTRONIC BULLETIN BOARD
- HQ DCA
 - WESTERN UNION SERVICE EASY LINK
 - ACCESS TO CBD'S
 - SEARCH, KEYWORD, ORGAN, SOL # ETC
 - DATA RETAINED
 - ACQUISITION INFORMATION FILES
 - LIST OF CURRENT CONTRACTS (OVER 100 CONTRACTS)
 - LIST OF KEY PERSONNEL CONTACT IN ACQ PROCESS
 - GENERAL ACQ INFO - POLICY CHANGES, BIDDERS CONFERENCES, ETC
 - ACQUISITION FORECAST - ADVANCED PROC INFO 90-120 DAYS
- DECCO
 - ELECTRONIC BULLETIN BOARD
 - CBD ANNOUNCEMENTS
 - FUTURE ACQ PLANS
 - LIST OF DECCO CONTRACTORS
 - LIST OF DECCO PROCUREMENT KEY PERSONNEL WORLD WIDE
 - ACQ POLICY & PROCEDURAL CHANGES
 - LIMITED INFO ON GOVERNMENT STANDARD

072-12-FEB 88-RC

DEFENSE COMMUNICATIONS AGENCY ACQUISITION BULLETIN BOARD

THE OFFICE OF THE COMPETITION ADVOCATE AND DIRECTOR OF SMALL AND DISADVANTAGED BUSINESS UTILIZATION (H130) HAS ESTABLISHED AN ELECTRONIC BULLETIN BOARD THROUGH THE WESTERN UNION INFORMATION RETRIEVAL SERVICE. ANY TELEX OR EASYLINK SUBSCRIBER MAY ACCESS THE BULLETIN BOARD. NON TELEX/EASYLINK SUBSCRIBERS MAY CONTACT MR. TOM MACLEOD, WESTERN UNION SYSTEM AT (202) 778-0300, FOR INFORMATION ABOUT THESE SERVICES.

072-15-FEB 88-RC

DEFENSE COMMUNICATIONS AGENCY ACQUISITION BULLETIN BOARD

**TELEX AND EASYLINK SUBSCRIBERS MAY ACCESS THE
SYSTEM UNDER THE "FYI" CATEGORY, BY TYPING "DCABB":
DCABB CONTAINS THE FOLLOWING SUBCATEGORIES:**

**CNTRA-- A LISTING OF ALL ACTIVE, UNCLASSIFIED
CONTRACTS, UPDATED MONTHLY**

**KEYPERS: A LISTING OF KEY DCA/NCS ACQUISITION
PERSONNEL**

**FORECAS: DCA/NCS ACQUISITION FORECAST FOR THE
CURRENT FISCAL YEAR**

**HARD COPIES OF THE ABOVEMENTIONED INFORMATION MAY
BE OBTAINED BY WRITING TO THE FOLLOWING ADDRESS:**

**DCA
ATTN: H130
WASHINGTON, DC 20305-2000**

072-16-FEB 88-RC

ACQUISITION INFORMATION

INFORMATION FILE ONE - COMMERCE BUSINESS DAILY SYNOPSIS
IDENTICAL INFORMATION TO CBD
OPENING AND CLOSING DATES

INFORMATION FILE TWO - ACQUISITION FORECAST
ADVANCE PROCUREMENT INFORMATION (90-120 DAYS LEAD TIME)

PR#	TITLE	EST CBD DATE
ID#	ORGANIZATION	SYNOPSIS OF EFFORT
RESTRICTIONS (SB, 8a, F/O)	MY	
PREVIOUS CONTRACT #		

INFORMATION FILE THREE - GENERAL ACQUISITION INFORMATION
GENERAL ANNOUNCEMENTS, e.g. BIDDERS CONFERENCE, CHANGES
IN KEY PERSONNEL, POLICY CHANGES
DATE AND NARRATIVE

INFORMATION FILE FOUR - LIST OF DCA CURRENT CONTRACTS
CONTRACTOR, OPR, CONTRACT #, TOTAL VALUE, AWARD DATE,
EXPIRATION DATE, # OF OPTION YEARS, EXP COMP DATE, SHORT
NARRATIVE

INFORMATION FILE FIVE - DCA KEY CONTACTS
ORGANIZATION ELEMENT, NAME, TELEPHONE #, ROLE/MISSION AREA

072-13-FEB 88-RC

DCA/NCS SMALL BUSINESS

DIRECTOR, SMALL BUSINESS

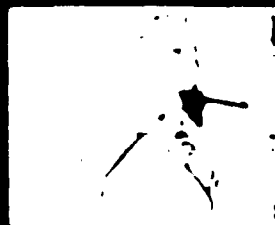
**RAYMOND MARTONE
692-5358**

**DEPUTY DIRECTOR, SMALL BUSINESS
& ASSOCIATE DIRECTOR, SMALL
BUSINESS, HQS DCA**

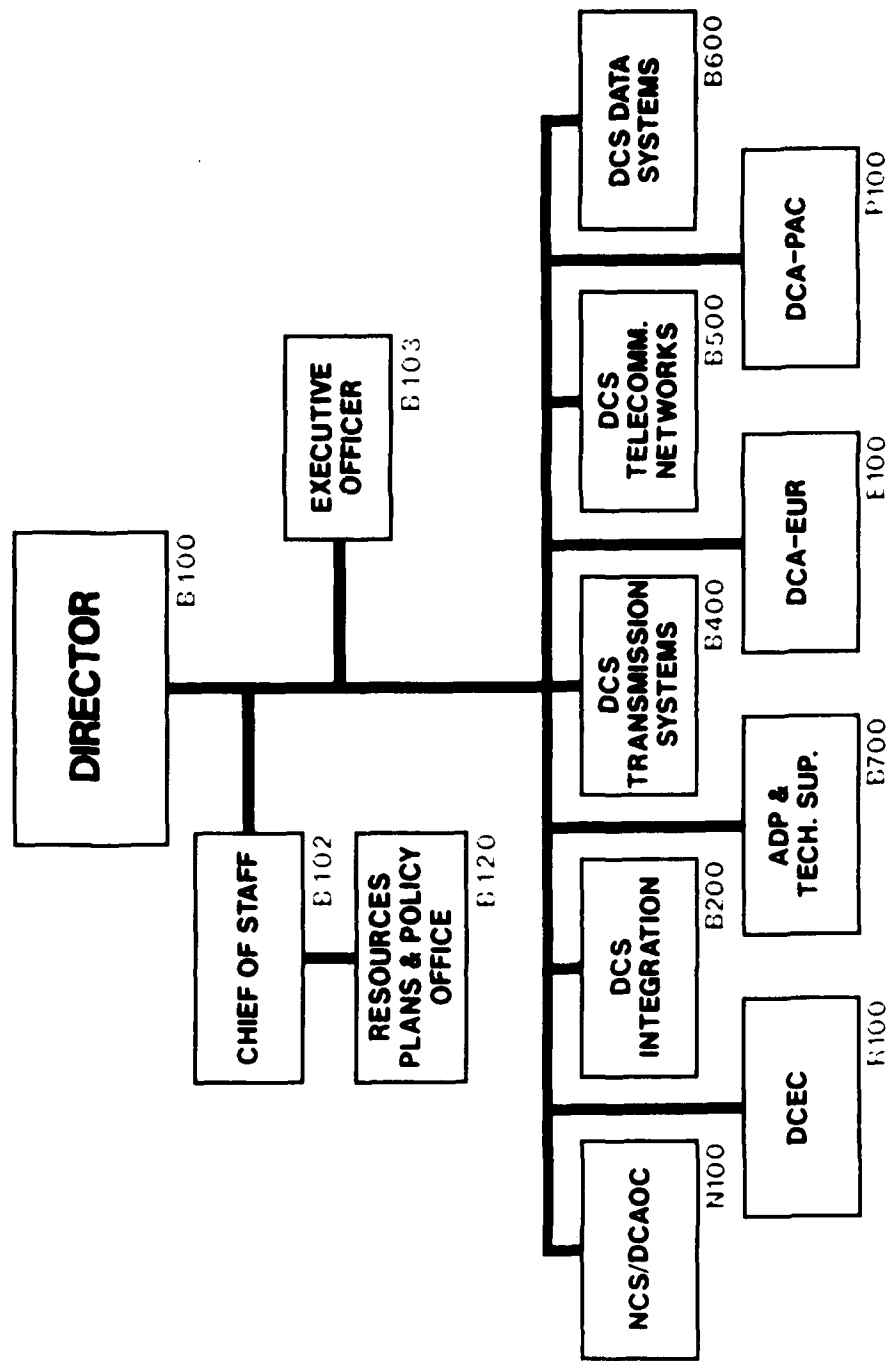
**GLEN MOORE
692-5358**

**ASSOCIATE DIRECTOR, SMALL
BUSINESS, DECCO**

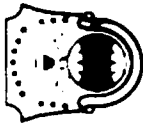
**CAPT JOE BROOKS
(618) 256-2349**



DCSO Organization Chart



E 212 - MAY 65 - R-RC



DCS MISSION

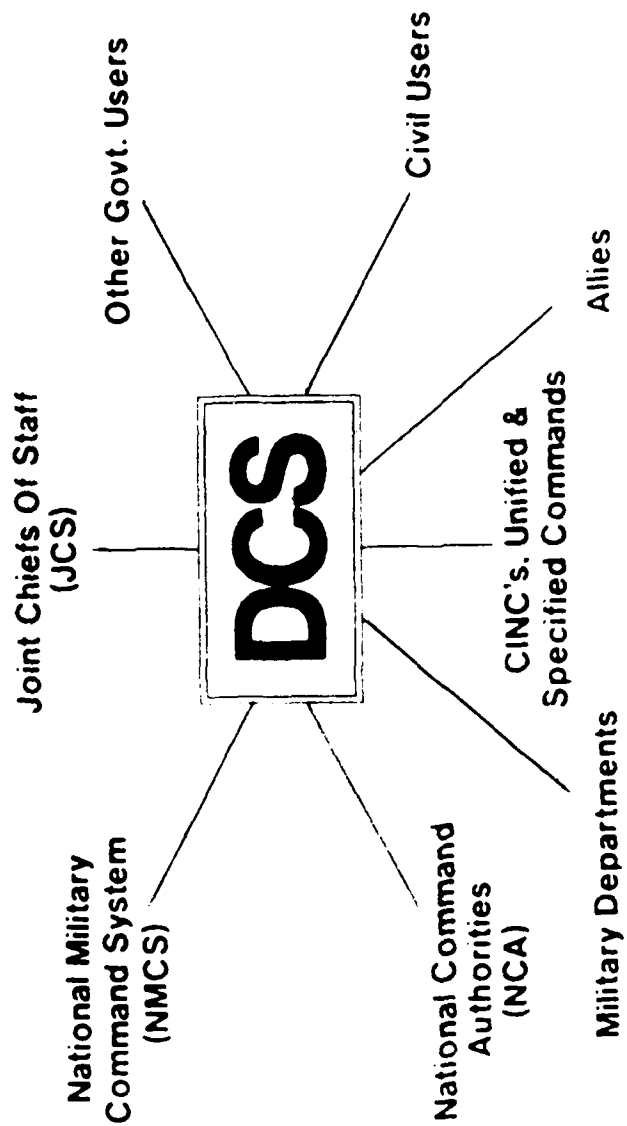
TO PROVIDE THE LONG-HAUL, POINT-TO-POINT,
AND SWITCHED NETWORK TELECOMMUNICATIONS
NEEDED TO SATISFY THE REQUIREMENTS OF DOD
AND CERTAIN OTHER GOVERNMENTAL AGENCIES

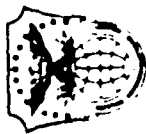
PEACETIME

WARTIME

--

DCS Users

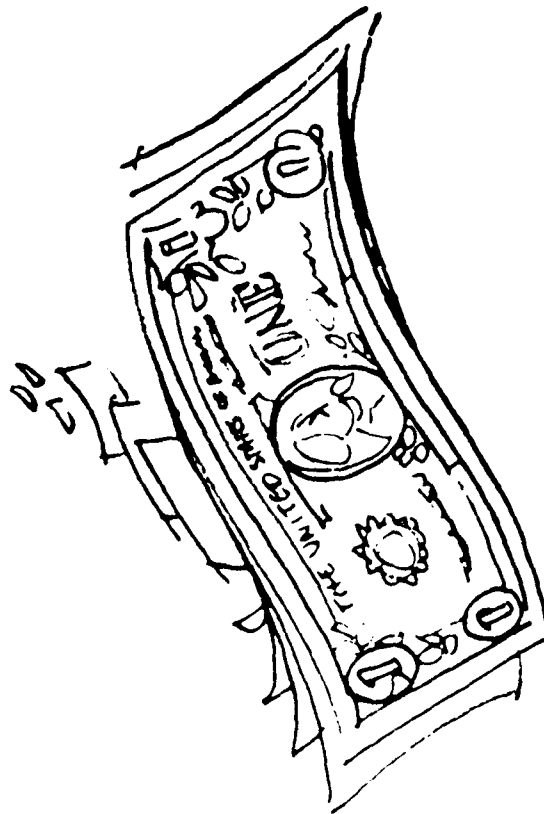




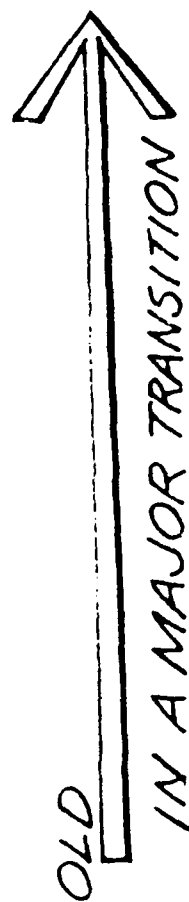
What Is The DCS?



ONE-HALF MILLION
USERS



\$12B CAPITAL
INVESTMENT

OLD  NEW
IN A MAJOR TRANSITION

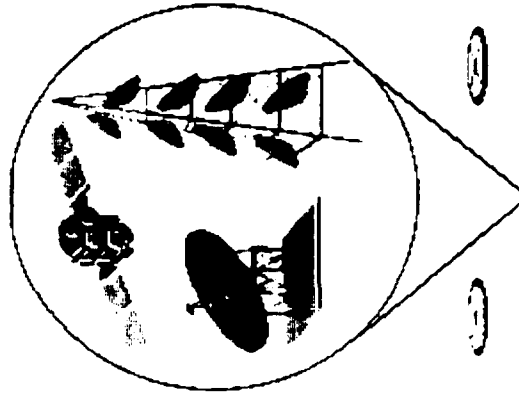
CV #37-352-6844 EO5:1

■ ■ ■ (ON #1494) A1478.003

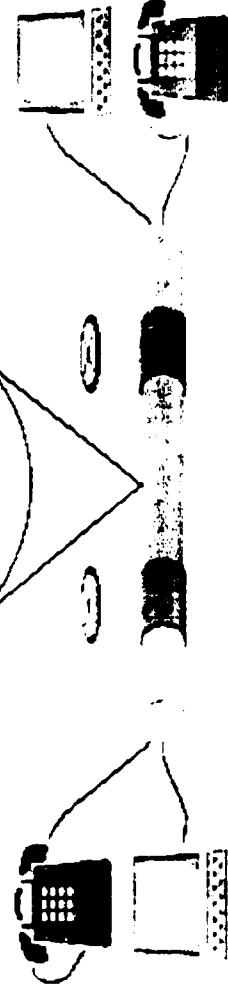


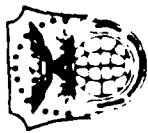
DCS: A COMMUNICATIONS PIPELINE

566 DCS SITES
240 VOICE SWITCHES
316 DATA SWITCHES
61 000 CIRCUITS



VOICE
MESSAGE
DATA
VIDEO

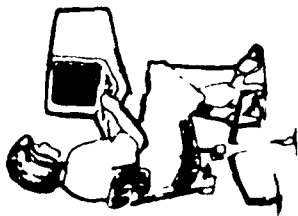




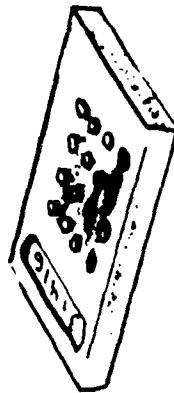
DCA's Role For The DCS



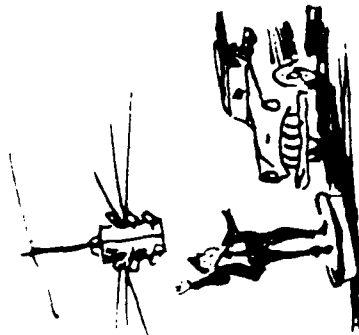
○ PLANNING
AND
PROGRAMMING



○ MANAGING



○ ENGINEERING



○ OPERATIONAL
DIRECTION

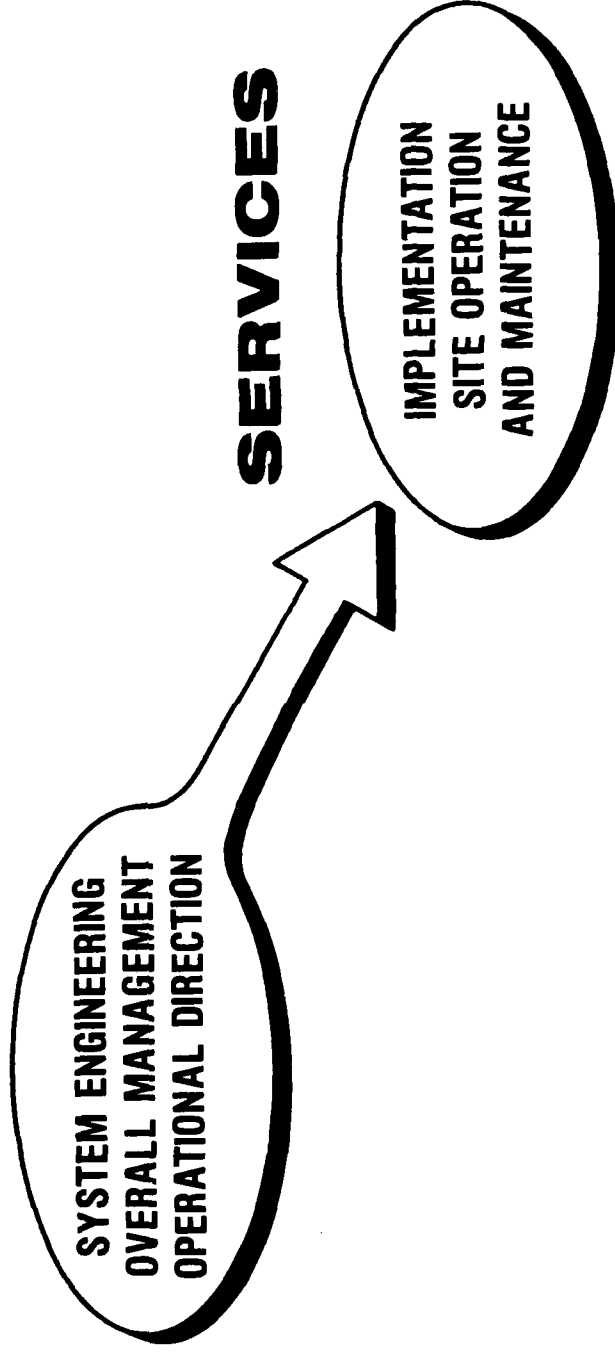
RELATIONSHIPS

DCA

SYSTEM ENGINEERING
OVERALL MANAGEMENT
OPERATIONAL DIRECTION

SERVICES

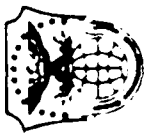
IMPLEMENTATION
SITE OPERATION
AND MAINTENANCE



Current Operational DCS

- **Defense Switched Network (DSN)**
- **Automatic Digital Network (AUTODIN)**
- **Defense Data Network (DDN)**
- **Automatic Secure Voice Communications System (AUTOSEVOCOM)**
- **Defense Satellite Communications System (DSCS)**
- **Terrestrial Transmission**
- **System Control**

Problems With The Current DCS



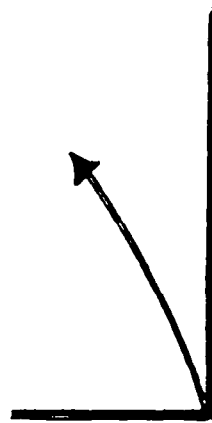
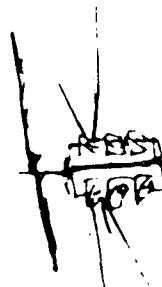
AGE OF
EQUIPMENT



SECURITY



SURVIVABILITY



CAPACITY/
INCREASED
DEMAND



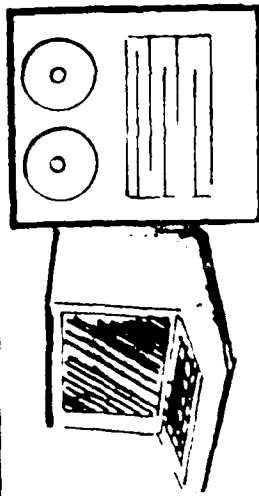
NETWORK
MANAGEMENT
AND CONTROL



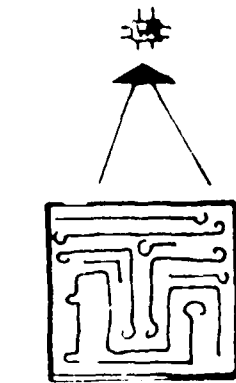
New Technologies



◦ DIGITIZATION



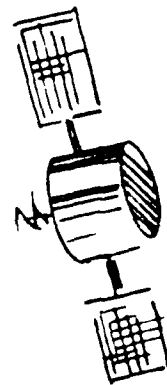
◦ COMPUTER-BASED EQUIPMENT



◦ LARGE SCALE INTEGRATION

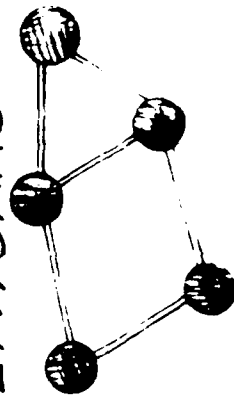


◦ FIBER OPTICS



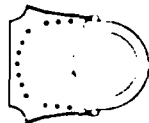
◦ SATELLITES

◦ DISTRIBUTED NETWORKS



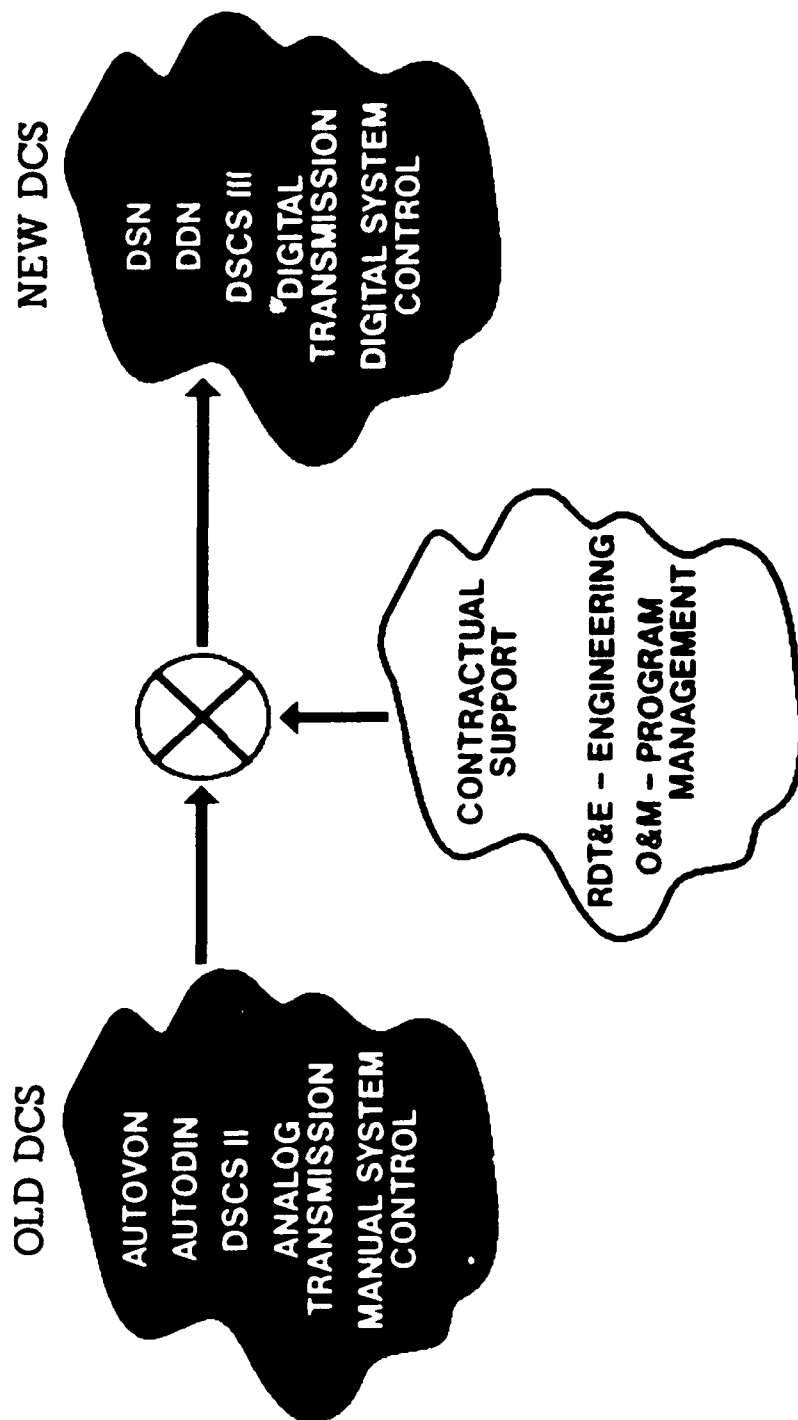
Planned Changes To Current System

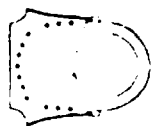
- **Defense Switched Network (DSN)**
- **Defense Data Network (DDN)**
- **Secure Voice System (SVS)**
- **Defense Satellite Communications System (DSCS)**
- **Terrestrial Transmission**
- **System Control**



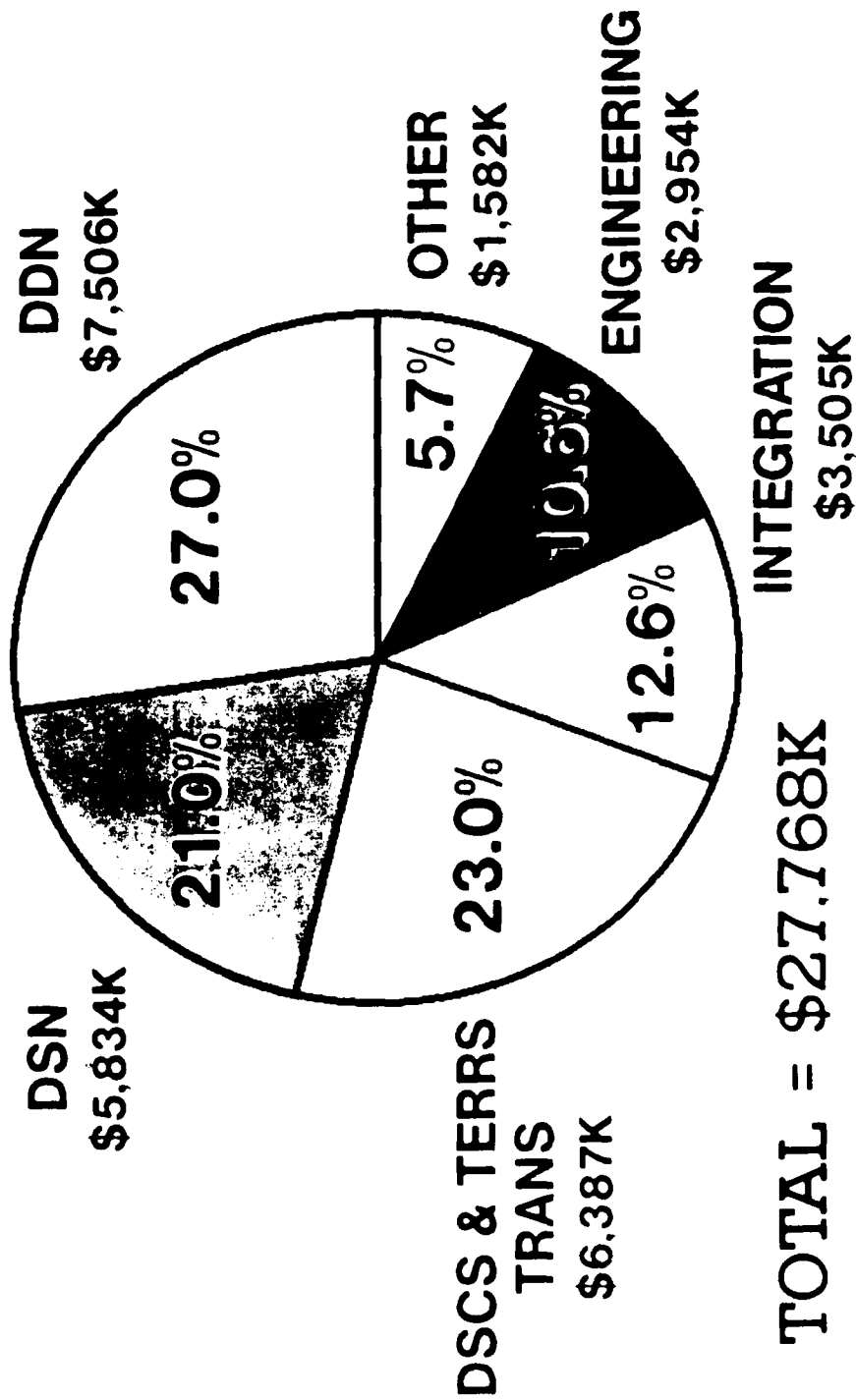
DCS TRANSITION

DCS IN CRITICAL AND RAPID TRANSITION PHASE AS MAJOR
NEW PROGRAMS REPLACE AGED DCS NETWORKS

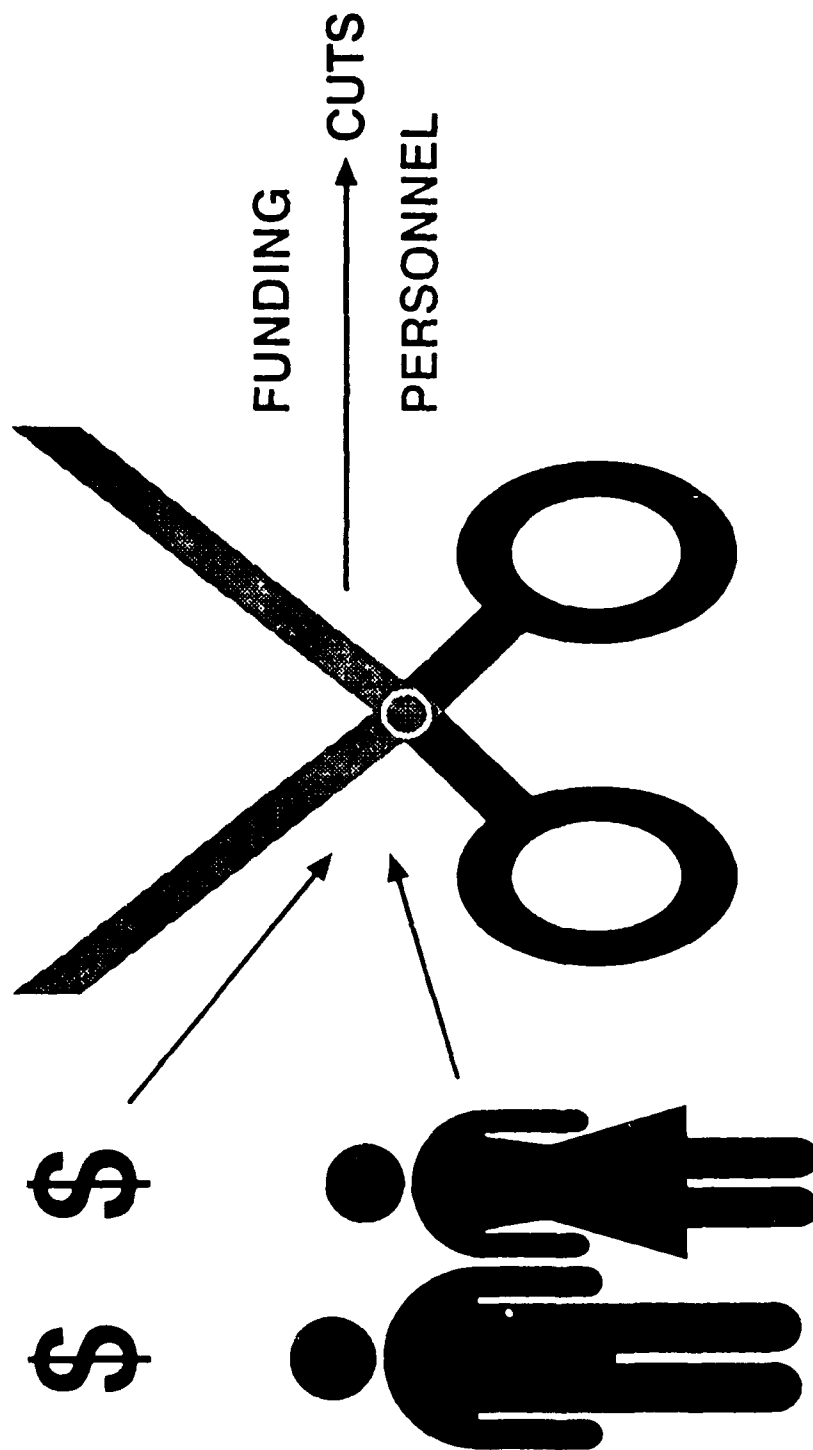


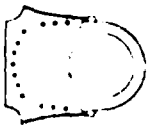


DCSO FY88 CONTRACTUAL EFFORTS (O&M AND RDT&E)



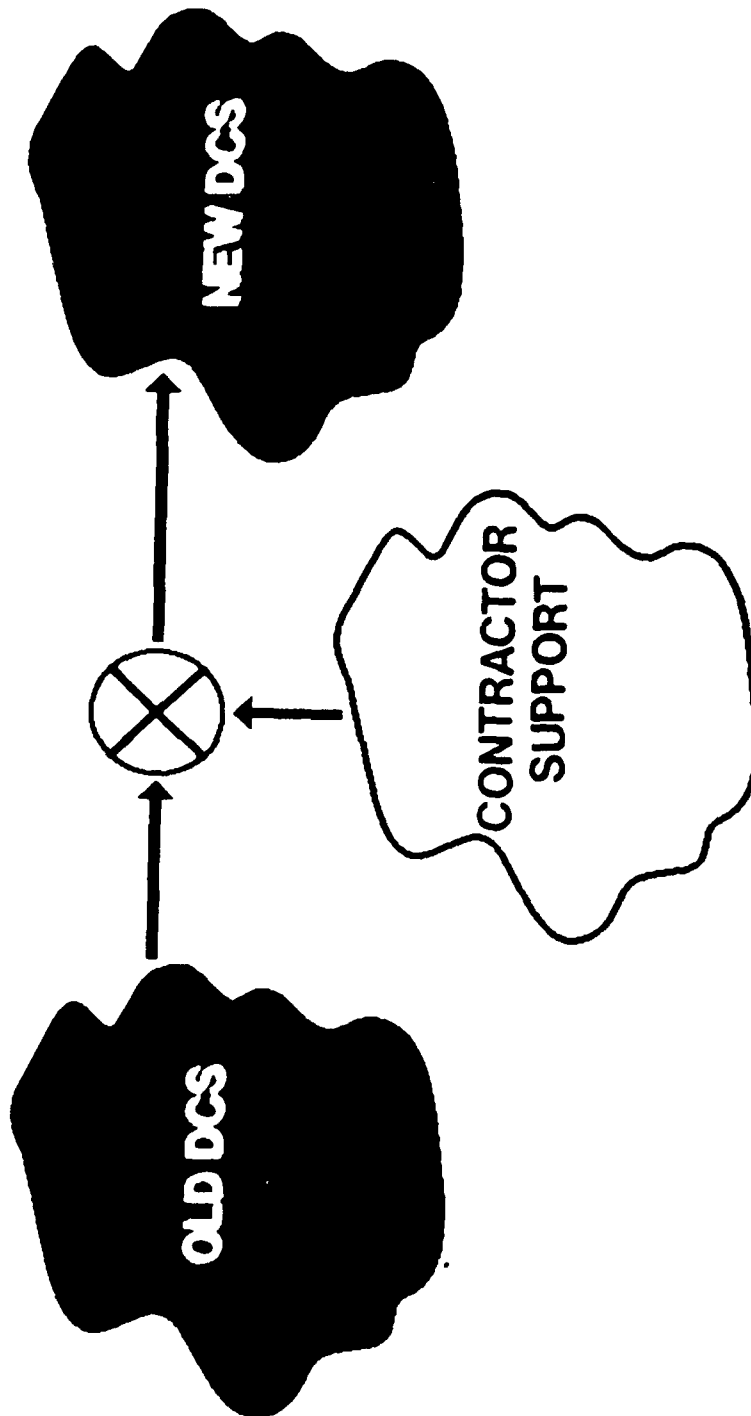
DCSO OPERATING ENVIRONMENT



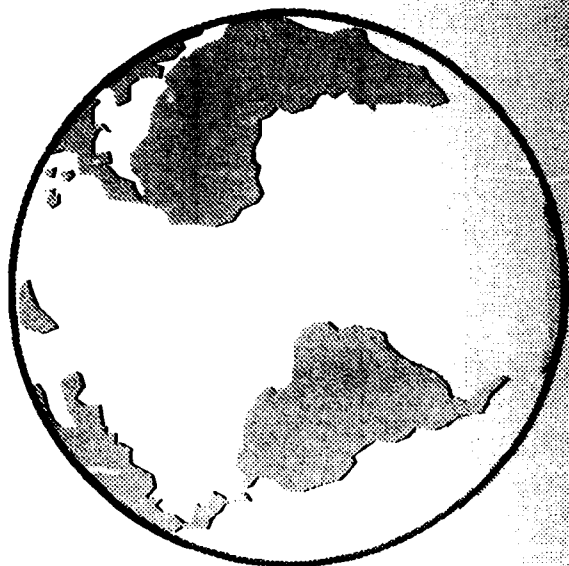


SUMMARY

CONTRACTOR SUPPORT IS CRITICAL TO THE DCS AS IT TRANSITIONS FROM AN OLD ANALOG, MANUAL SYSTEM TO A NEW DIGITAL, AUTOMATED SYSTEM



037-1-JAN 88-RC



JOINT DATA SYSTEMS SUPPORT CENTER

#058-CV

OUTLINE

- **ORGANIZATIONAL OVERVIEW**

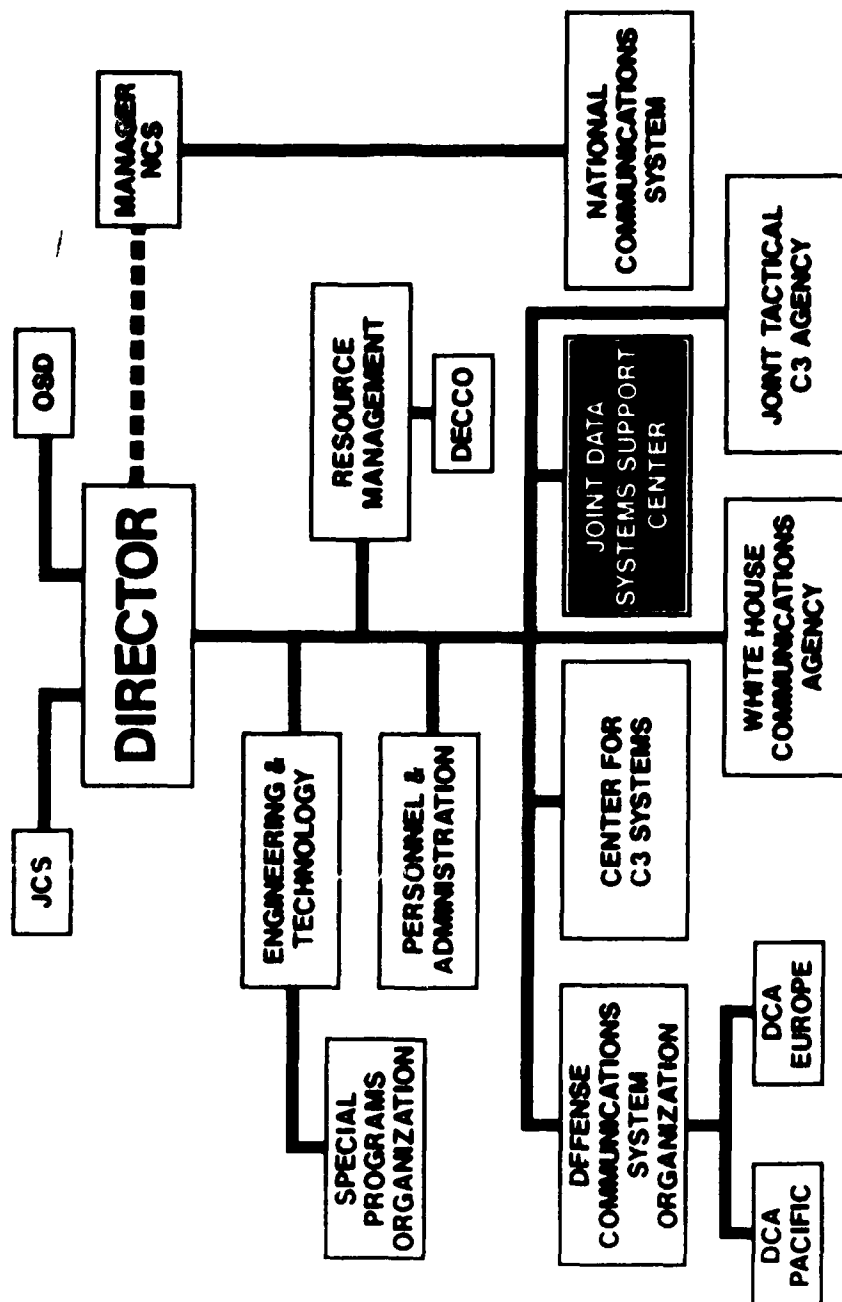
- **RESOURCES**

- **DEFINITIONS**

- **JDSSC PROGRAMS**

- **SUMMARY**

DCA ORGANIZATION



058-4-FEB 80-RC

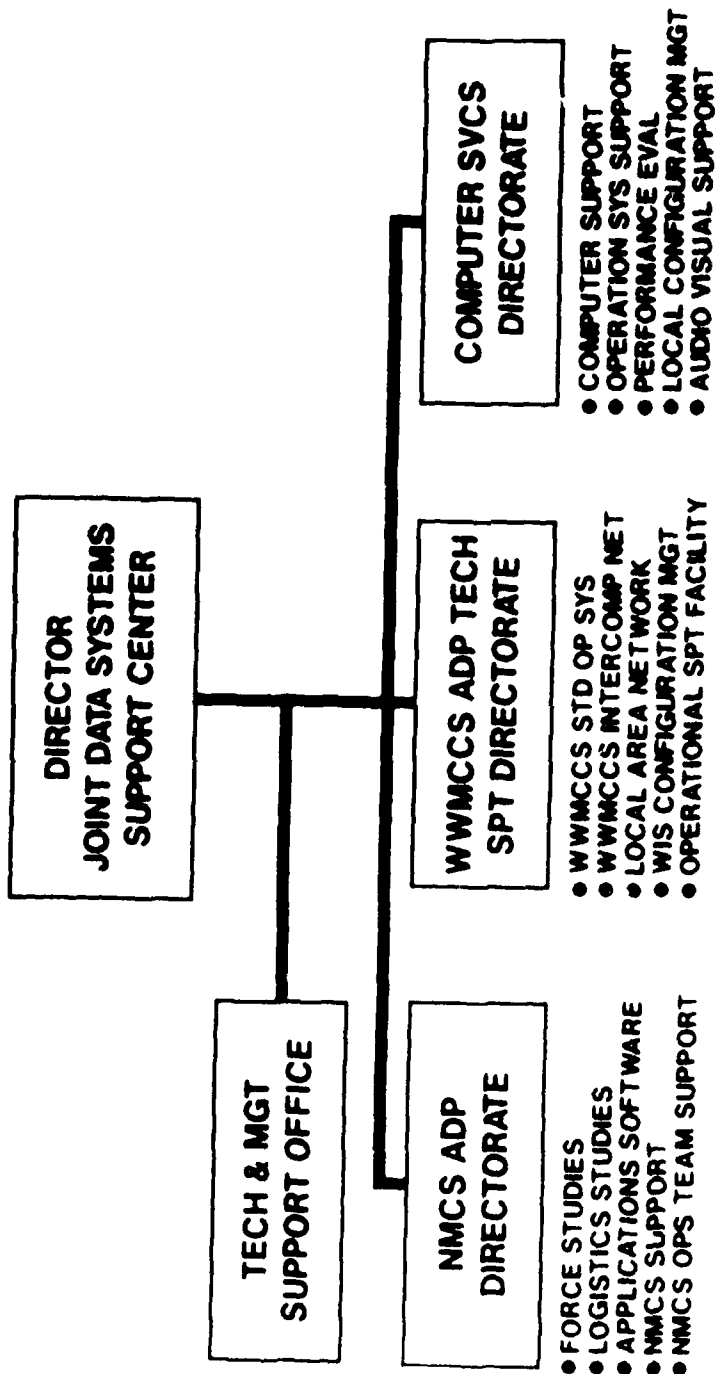
DCA MISSION

- PLAN, MANAGE AND SYSTEM ENGINEER THE DCS
- JDSSC▶ ● PROVIDE ADP AND TECHNICAL SUPPORT TO OJCS AND OSD
- PROVIDE SYSTEMS ENGINEERING SUPPORT FOR THE NATIONAL MILITARY COMMAND SYSTEM AND THE STRATEGIC FORCES
- JDSSC▶ ● PROVIDE ENGINEERING AND TECHNICAL SUPPORT TO THE WWMCCS
- PROVIDE SYSTEMS ARCHITECTURE FOR CURRENT AND FUTURE MILSATCOM
- PROCURE LEASED COMMUNICATIONS FOR DoD AND OTHER GOVERNMENT AGENCIES
- ENSURE INTEROPERABILITY OF TACTICAL COMMAND, CONTROL, AND COMMUNICATION SYSTEMS FOR JOINT AND COMBINED OPERATIONS

JDSSC MISSION

- **PROVIDE CENTRALIZED TECHNICAL SUPPORT OF OPERATING SYSTEMS AND APPLICATIONS SYSTEMS FOR WWMCCS ADP, WIN AND OTHER ADP SYSTEMS TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ANALYTICAL AND ADP OPERATIONAL SUPPORT TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ADP SUPPORT AS SPECIFICALLY DIRECTED BY THE DIRECTOR, JOINT STAFF, TO THE WIS-JOINT PROGRAM MANAGER AND OTHER USERS**

JDSSC ORGANIZATION



HEADQUARTERS BUILDING

RESTON

PENTAGON

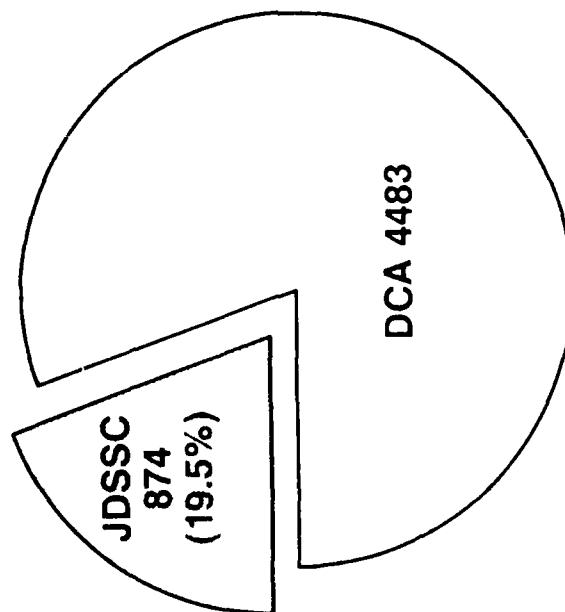
WASHINGTON NAVY YARD

ANMCC

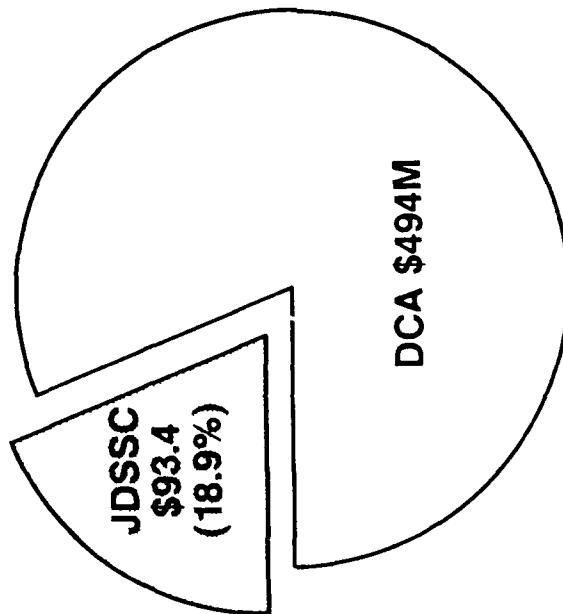
058-7-FEB 88-RC

DCA/JDSSC RESOURCE SUMMARY (FY88)

PEOPLE



DOLLAR\$



874 = 456 CIVILIANS, 258 ENLISTED, 160 OFFICERS
 CONTRACTS = 42.4M, PROCUREMENT = 8M, CIVILIAN PAY = 19.3M
 OPERATING = 24M

#058-CV

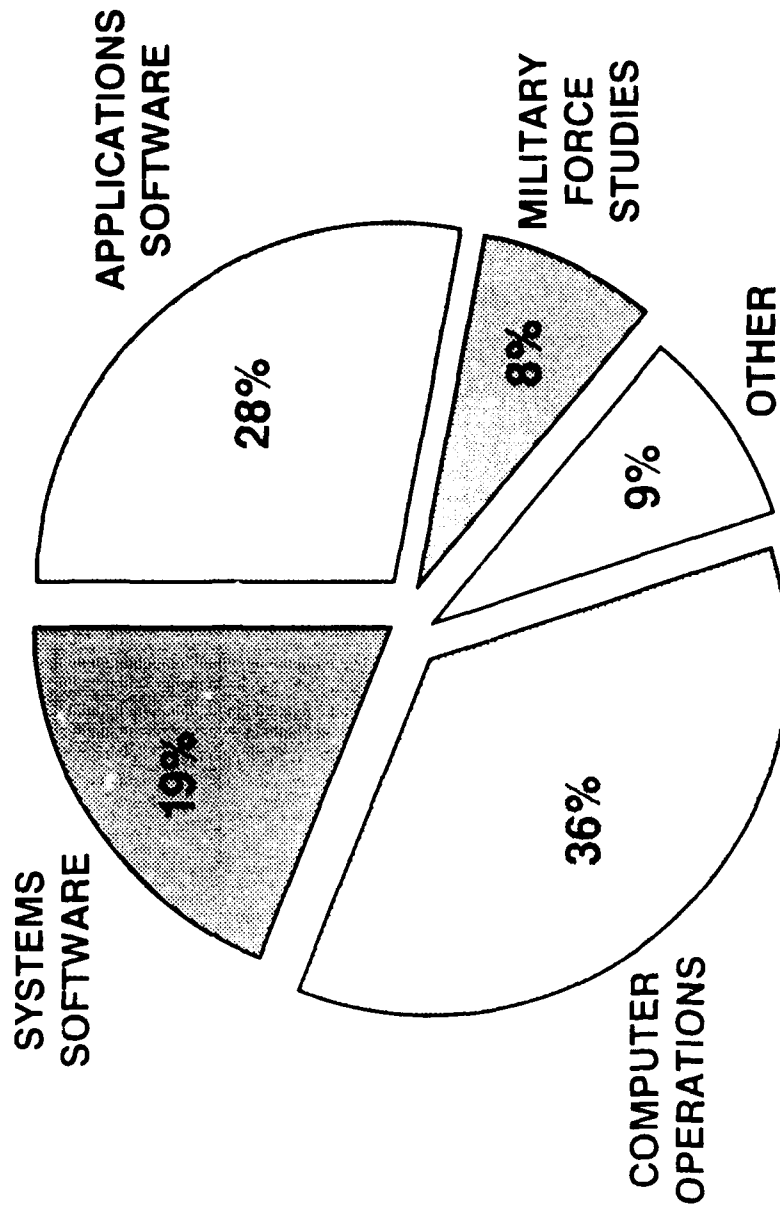
RESOURCE SUMMARY

IN-HOUSE MANPOWER (FY88)

	<u>DIRECTOR</u>	<u>NMCS ADP</u>	<u>WWMCCS ADP</u>	<u>COMPUTER SERVICES</u>	<u>TOTAL</u>
OFFICERS	7	112	23	18	160
ENLISTED	3	34	4	217	258
TOTAL MILITARY	10	146	27	235	418
CIVILIAN	36	249	77	94	456
	<u>46</u>	<u>395</u>	<u>104</u>	<u>329</u>	<u>874</u>

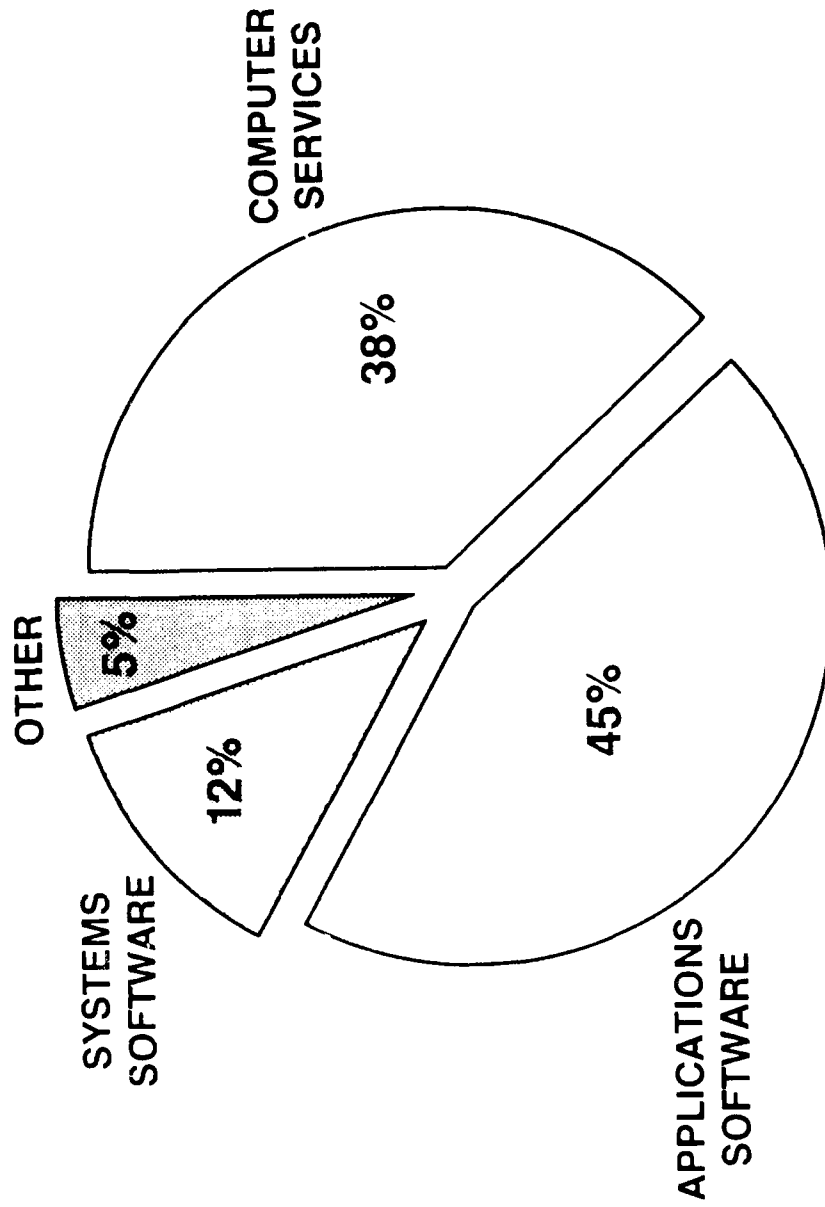
058-9-FEB 88-RC

RESOURCE ALLOCATION



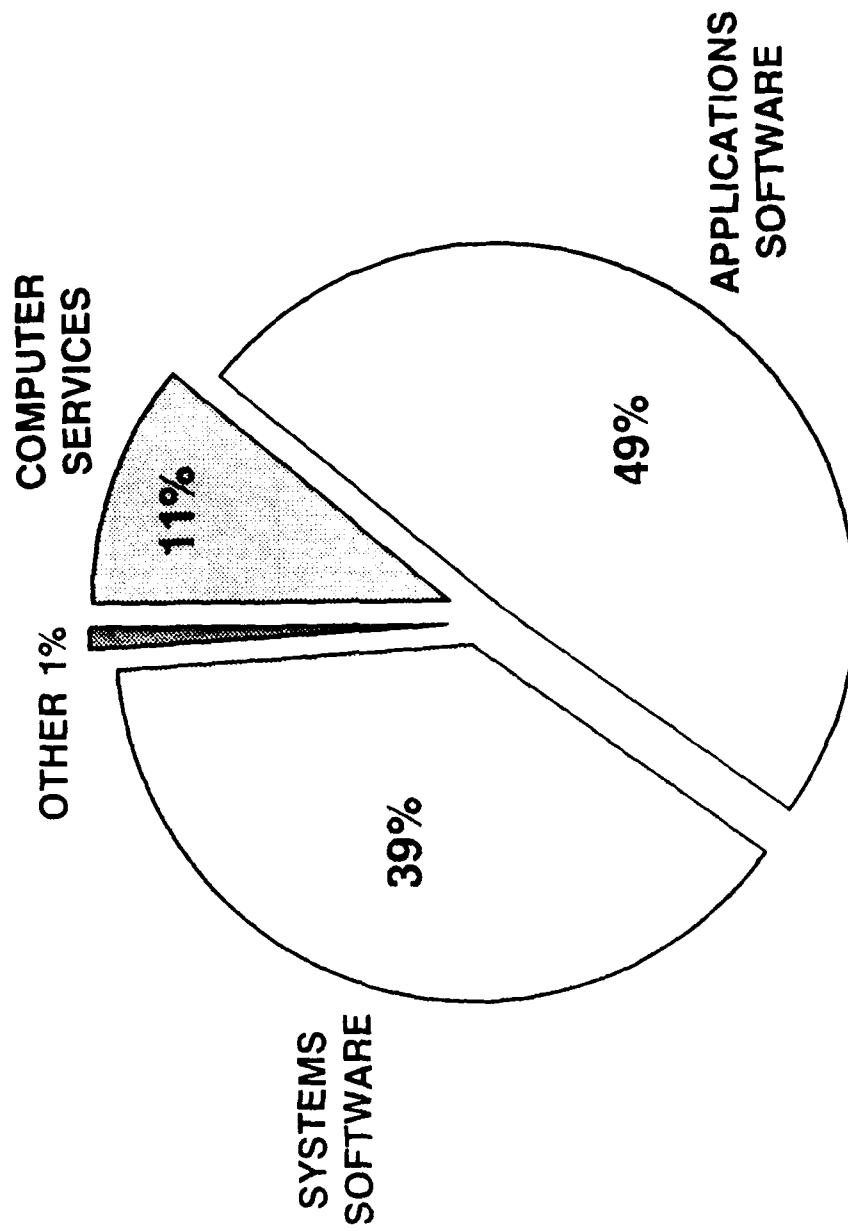
#058-CV

IN-HOUSE MANPOWER ALLOCATION



#058-CV

CONTRACT RESOURCE ALLOCATION

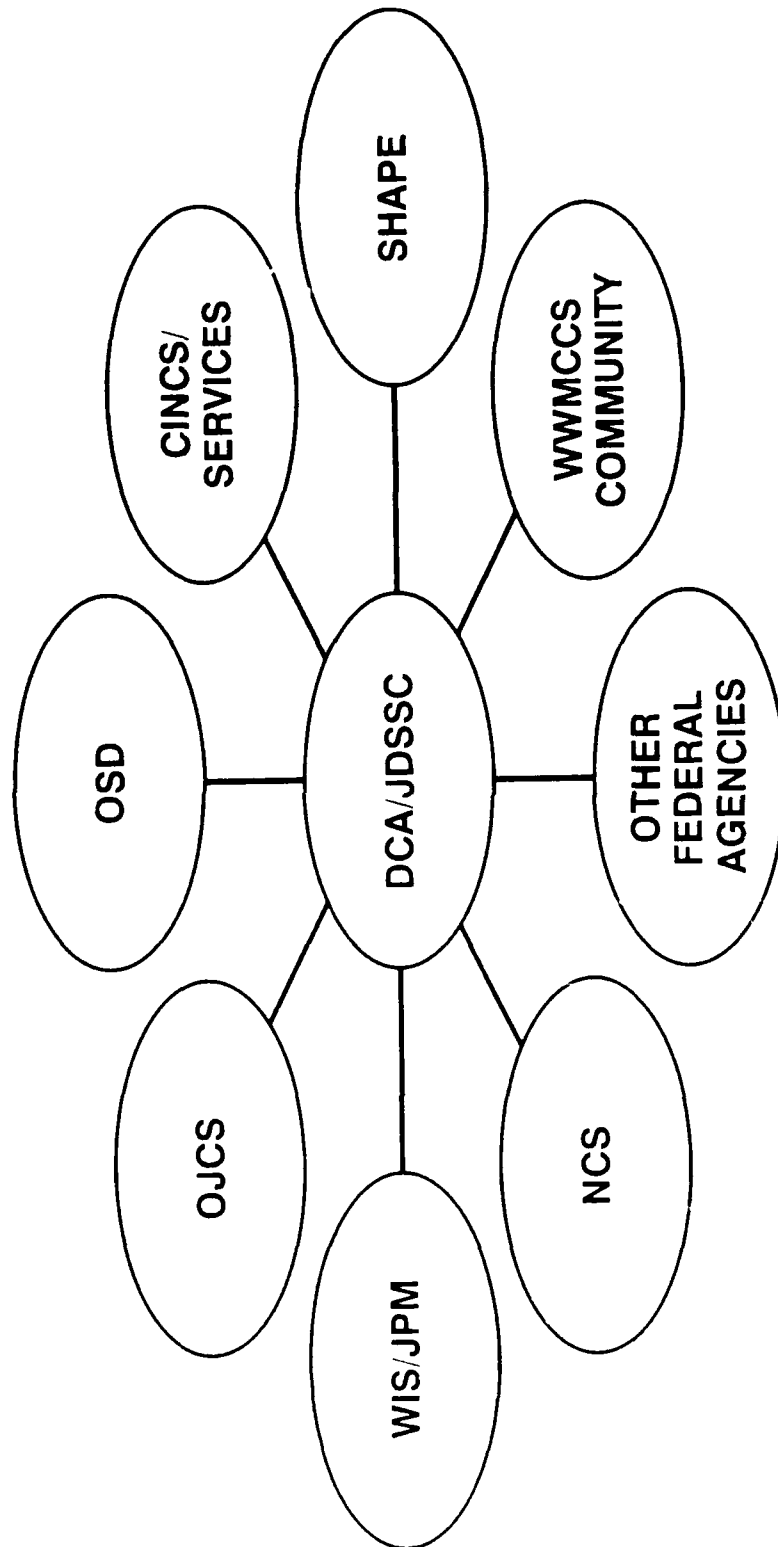


#058-CV

CONTRACTORS

UNISYS	GENERAL SUPPORT
COMPUTER SCIENCES CORPORATION	GENERAL SUPPORT
HONEYWELL	GENERAL SUPPORT
POTOMAC SYSTEMS ENGINEERING	OFFICE AUTOMATION
SYSTEMS RESEARCH & APPLICATIONS CORPORATION	
MITRE	EXERCISE SUPPORT
SYSTEMS APPLICATIONS INTERNATIONAL CORPORATION	WIS TRANSITION SUPPORT
SYNERGY	STRATEGIC STUDIES
NAVAL POSTGRADUATE SCHOOL	LOGISTICS SYSTEM DEVELOPMENT
NAVAL REGIONAL DATA AUTOMATION CENTER	LONG RANGE FORECASTING
7 COMM GROUP (USAF)	RISOP/SIOP SUPPORT
BUREAU OF CENSUS	MULTICS
DEPARTMENT OF STATE	POPULATION/INDUSTRIAL NATIONS
DEPARTMENT OF TRANSPORTATION	ASSESSMENT DATA
DEFENSE NUCLEAR AGENCY	ASSESSMENT DATA
ETC.	VERIFICATION & VALIDATION
.	
.	
.	

SUPPORTED ORGANIZATIONS



#058-CV

WWMCCS DEFINITION

**THE WWMCCS IS THE WORLDWIDE COMMAND
AND CONTROL SYSTEM THAT PROVIDES THE
MEANS FOR OPERATIONAL DIRECTION AND
TECHNICAL ADMINISTRATION SUPPORT
INVOLVED IN THE FUNCTION OF COMMAND
AND CONTROL OF U.S. MILITARY FORCES**

DoD 5100.30

WWMCCS ELEMENTS

- **WARNING SYSTEMS**
- **COMMUNICATIONS**
- **COMMAND FACILITIES**
- **EXECUTIVE AIDS**
- **DATA COLLECTION & PROCESSING**

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WWMCCS PRIMARY MISSION

SUPPORT OF NATIONAL COMMAND AUTHORITIES FOR:

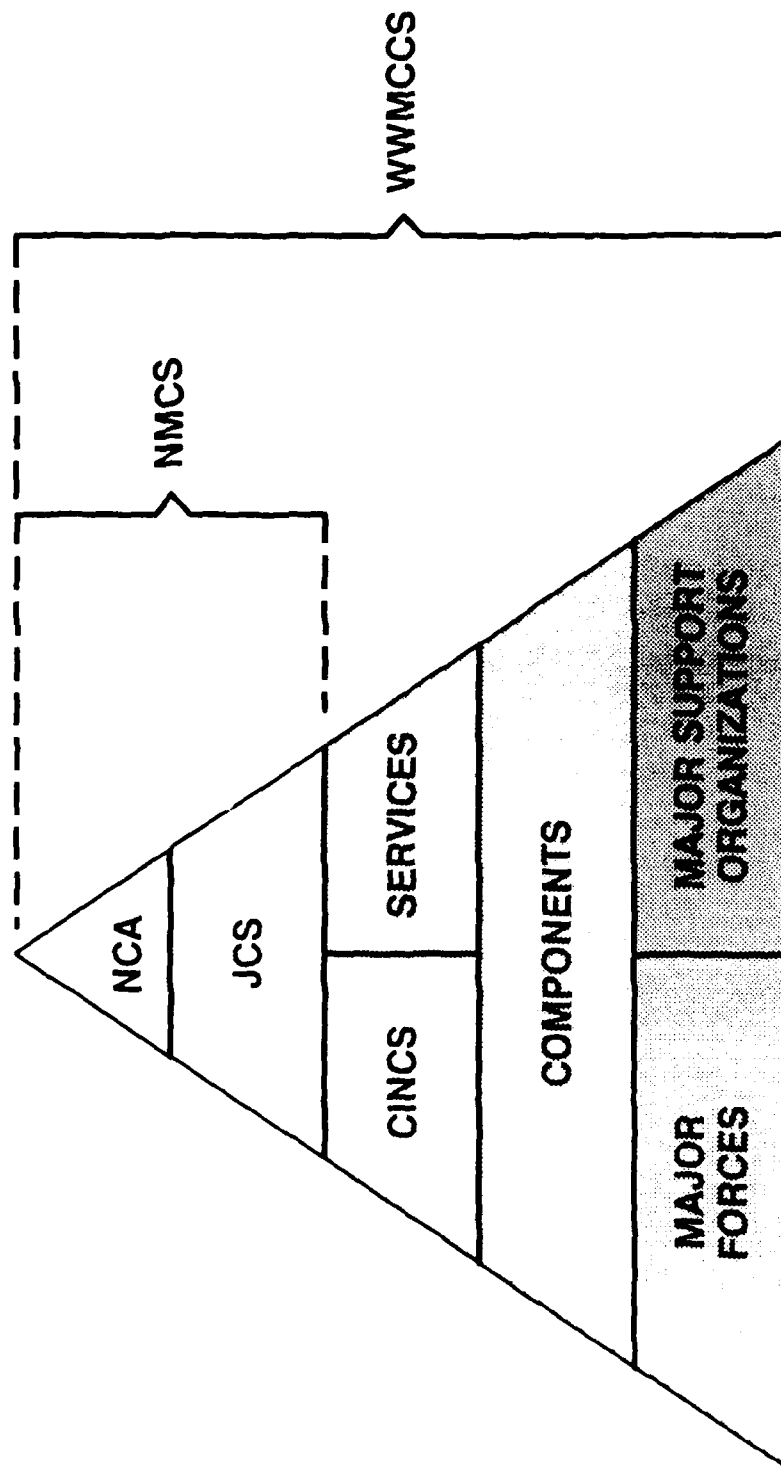
- **RECEIPT OF WARNING AND INTELLIGENCE
UPON WHICH ACCURATE AND TIMELY DECISIONS
CAN BE MADE**
- **APPLICATION OF RESOURCES OF THE MILITARY
DEPARTMENTS**
- **ASSIGNMENT OF MISSIONS AND PROVISION OF
DIRECTION TO THE UNIFIED AND SPECIFIED
COMMANDS**

WWMCCS SECONDARY MISSION

- **SUPPORT COMMAND AND CONTROL SYSTEMS
OF THE UNIFIED AND SPECIFIED COMMANDS**
- **SUPPORT WWMCCS RELATED MANAGEMENT
INFORMATION SYSTEMS OF OTHER DoD
COMPONENTS**

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PRIORITY COMPONENT OF WWMCCS **NATIONAL MILITARY COMMAND SYSTEM** **(NMCS)**



#058-CV

NATIONAL MILITARY COMMAND SYSTEM DEFINITION

THE NMCS IS THE PRIORITY COMPONENT OF THE WWMCCS DESIGNED TO SUPPORT THE NATIONAL COMMAND AUTHORITIES AND THE JOINT CHIEFS OF STAFF. THE NMCS CONSISTS OF THE FACILITIES, DATA PROCESSING SYSTEMS AND NETWORKS, DISPLAY SYSTEMS, AND MESSAGE PREPARATION, VOICE DATA, AND COMMUNICATIONS SYSTEMS WHICH PROVIDE THE REQUIRED SUPPORT.

WWMCCS ADP DEFINITION

**WWMCCS ADP CONSISTS OF STANDARD
HARDWARE, SOFTWARE AND PROCEDURES.
IT INTERFACES WITH OTHER WWMCCS
ELEMENTS, AND PROVIDES THE BULK OF
DATA PROCESSING AND TELECOMMUNICATIONS
FACILITIES NECESSARY TO SUPPORT THE
INFORMATION PROCESSING REQUIREMENTS
OF THE NATIONAL COMMAND AUTHORITIES.**

WWMCCS ADP OVERALL

- **45 H6000 SITES WORLDWIDE**
- **113 H6000 COMPUTERS**
- **87 LEVEL 6 COMPUTERS**
- **3400 PEOPLE**
- **\$200 MILLION PER YEAR**

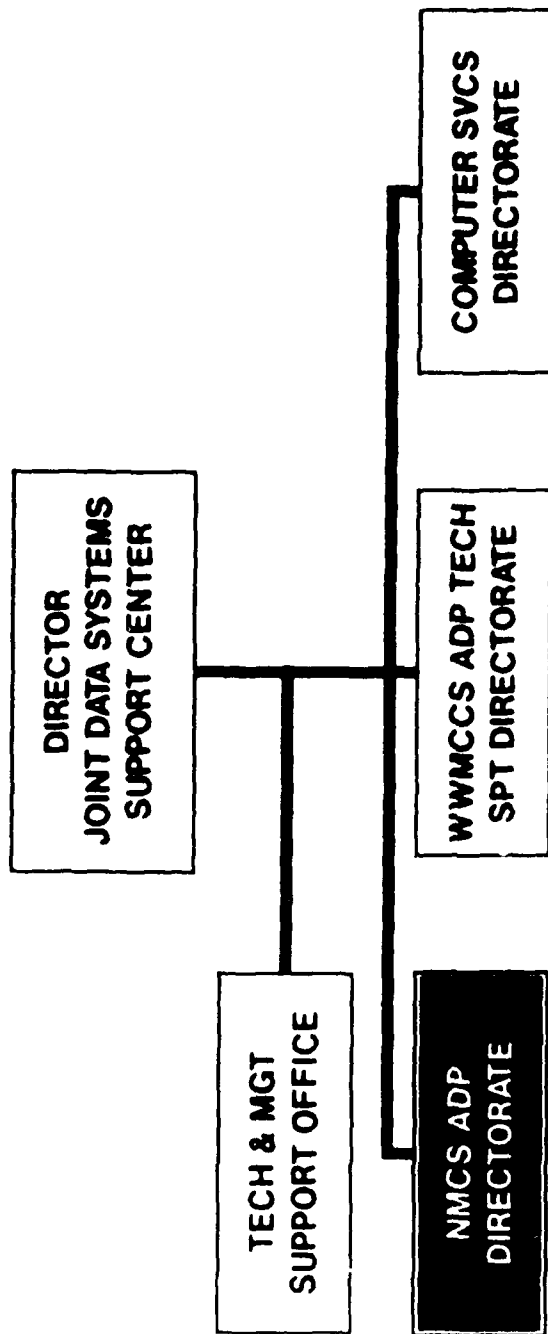
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WWMCCS INFORMATION SYSTEM (WIS)

DEFINITION

THE WWMCCS INFORMATION SYSTEM PROGRAM PROVIDES AN IMPROVED COMMAND AND CONTROL CAPABILITY FOR USE IN NATIONAL SECURITY DECISION-MAKING, FORCE PREPARATION AND PLANNING, AND EXECUTION OF OPERATION PLANS, BY MODERNIZING THE WWMCCS ADP SYSTEM PRIMARILY THROUGH THE USE OF COMMERCIAL OFF-THE-SHELF HARDWARE AND SOFTWARE.

JDSSC ORGANIZATION



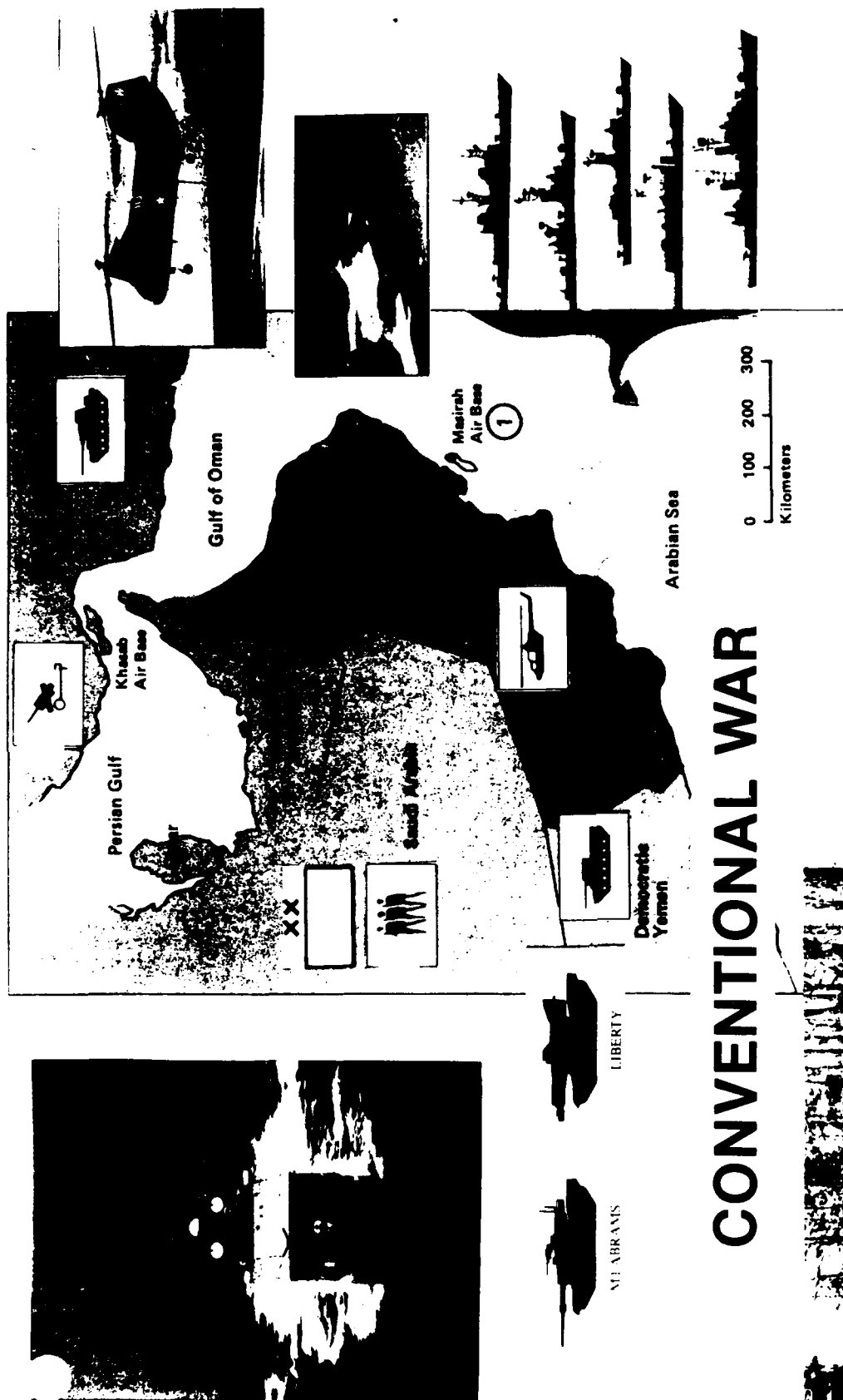
058-24-FEB 88-RC

NMCS ADP DIRECTORATE MAJOR FUNCTIONS

- **DEVELOP AND MAINTAIN ADP COMMAND AND CONTROL SYSTEMS FOR THE OJCS AND WWMCCS COMMUNITY**
- **PROVIDE TECHNICAL AND ADP SUPPORT FOR WAR GAMING, MOBILITY ANALYSES, STRATEGIC FORCE ANALYSES, AND GENERAL PURPOSE FORCE ANALYSES**
- **MAINTAIN FORCE AND RESOURCE DATA FILES**
- **CONDUCT VULNERABILITY ANALYSIS AND DAMAGE ASSESSMENT STUDIES**
- **PROVIDE TRANSITION SUPPORT TO WIS AND IMPROVED NMCS CAPABILITIES**
- **PROVIDE CRISIS/EXERCISE AND EVALUATION SUPPORT**

NMCS ADP DIRECTORATE SUPPORT AREAS

- **CONVENTIONAL WAR**
- **STRATEGIC AND GENERAL WAR**
- **STUDIES AND WARGAMING**
- **LOGISTICS**
- **DATA AND INFORMATION SYSTEMS**
- **WWMCCS STANDARD APPLICATIONS**
- **EXERCISES**



CONVENTIONAL WAR

- RESOURCE MONITORING SYSTEM
- CURRENT OPERATIONS PLANNING SYSTEM
- JOINT OPERATIONS PLANNING AND EXECUTION SYSTEM

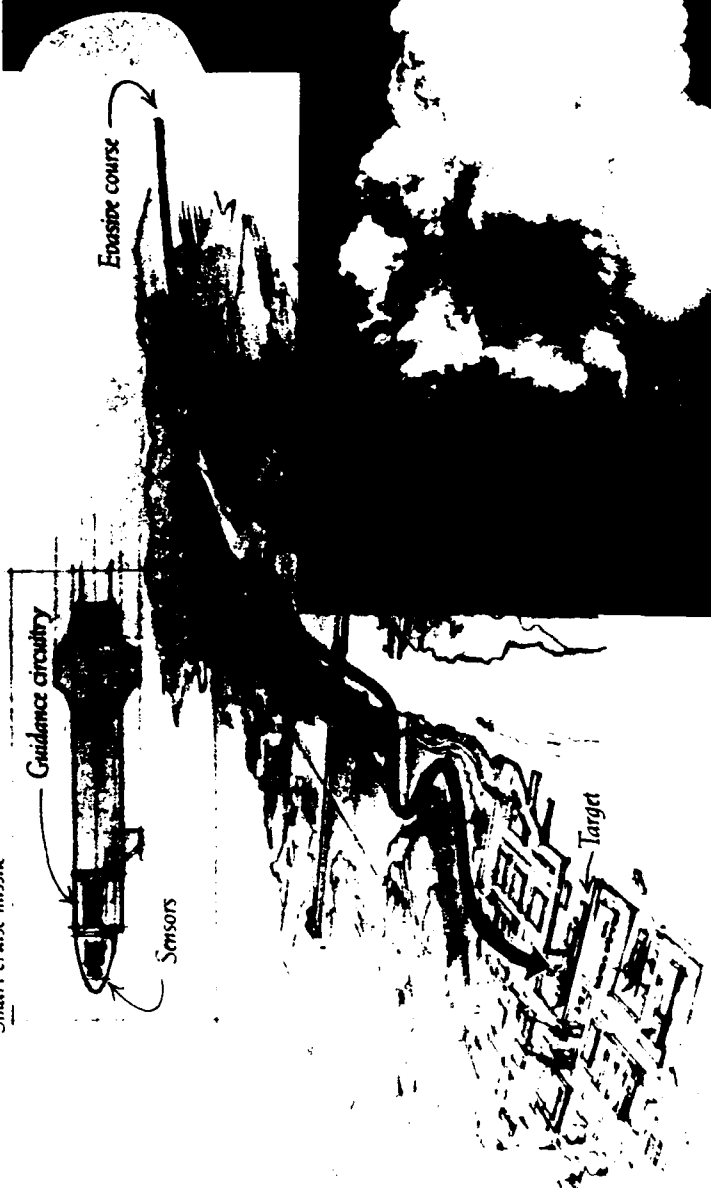
MT ABRAMS

LIBERTY



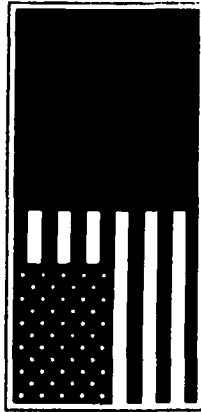
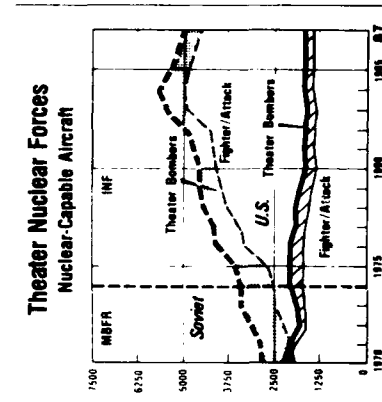
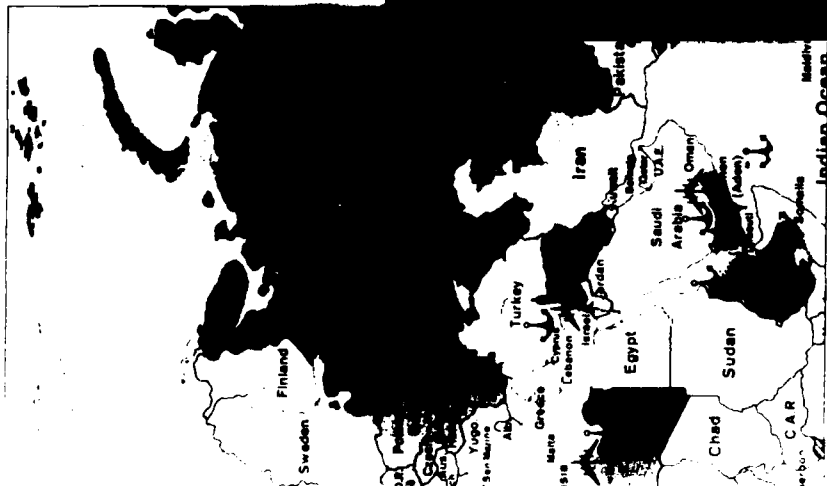
STRATEGIC & GENERAL WAR

Smart cruise missile



- NUCLEAR PLANNING AND EXECUTION SYSTEM
- THEATER MISSION PLANNING SYSTEM
- INTEGRATED TACTICAL WARNING AND ASSESSMENT

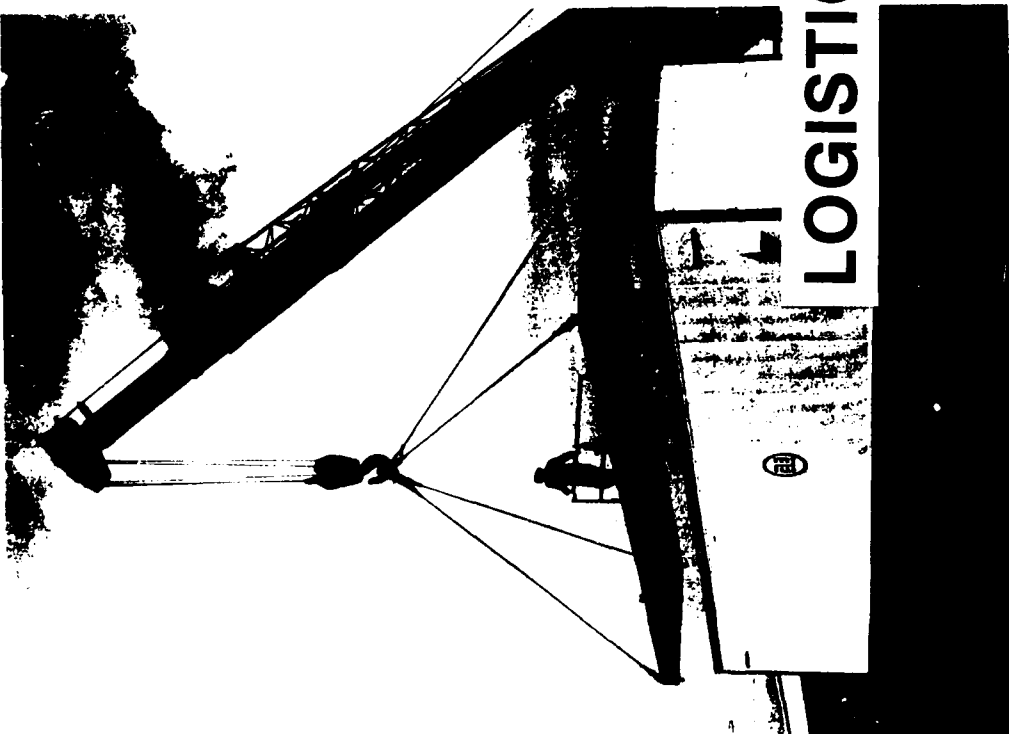
STUDIES AND WARGAMING



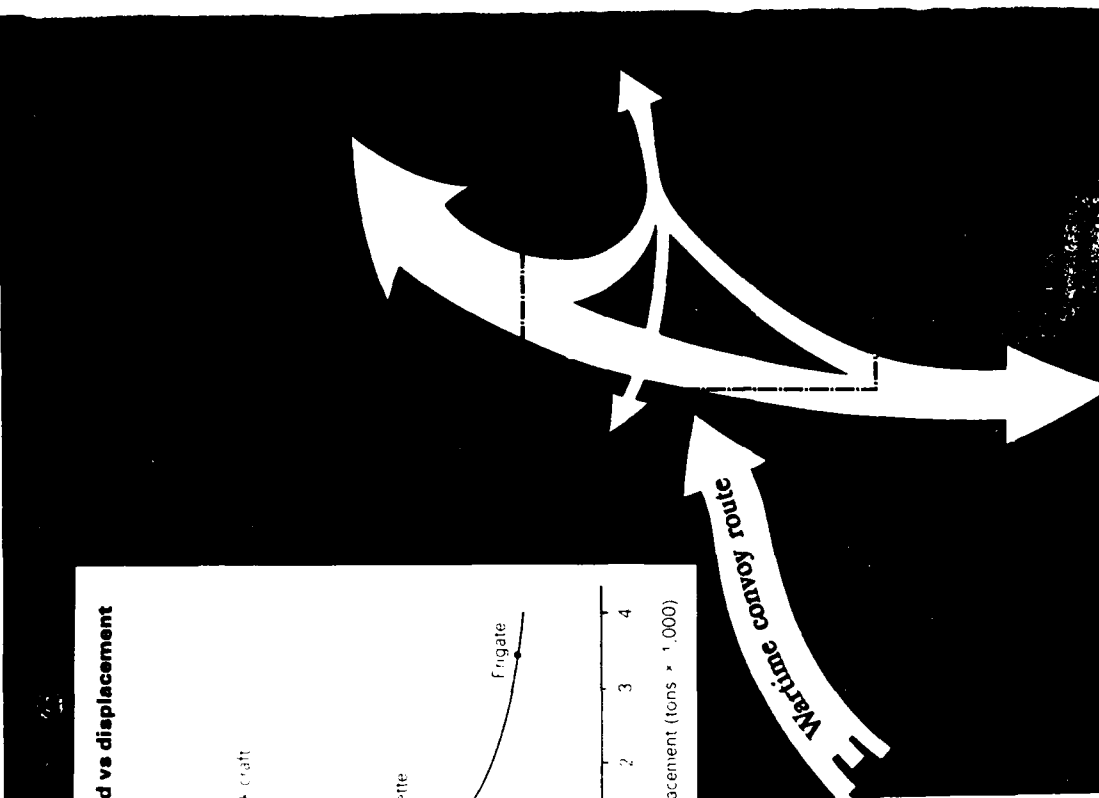
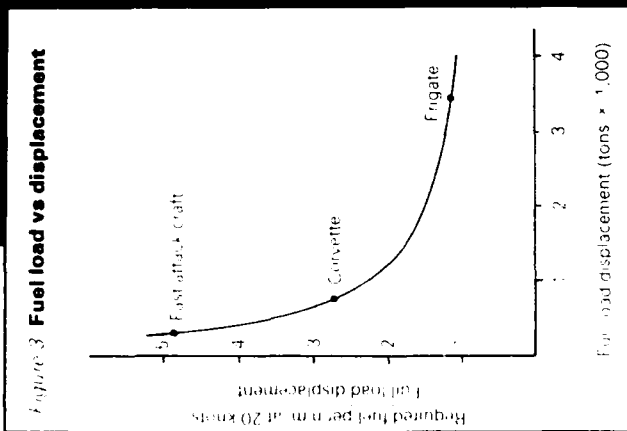
● SIOP/RISOP WAR GAMING

● ARMS NEGOTIATIONS





LOGISTICS



• NATO REINFORCEMENT PLANNING & EXECUTION

• LOGISTICS READINESS CENTER

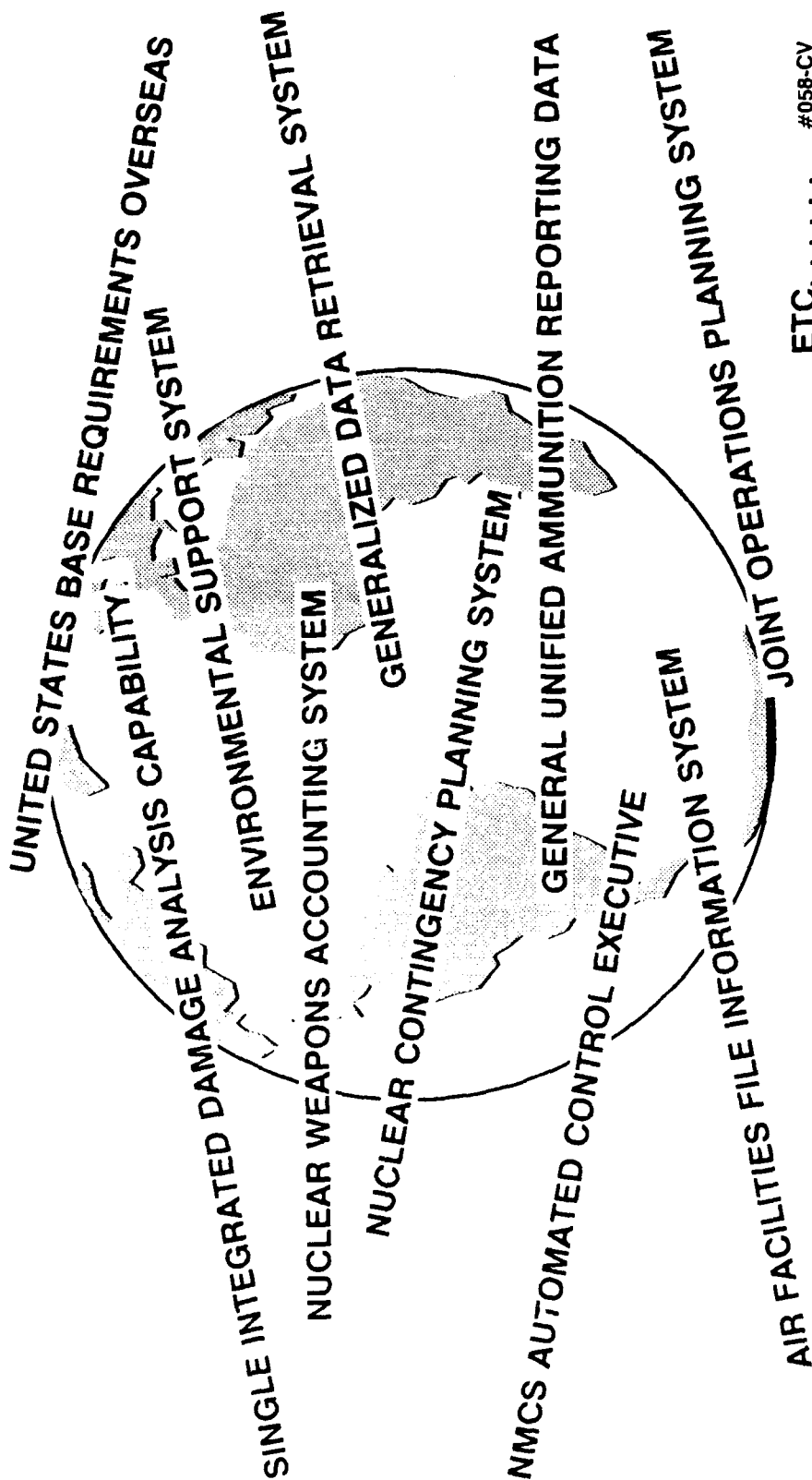
• SUSTAINABILITY OF FORCES

DATA & INFORMATION SYSTEMS



- NMCS INFORMATION DISPLAY SYSTEM
- JOINT RESOURCE ASSESSMENT DATA SYSTEM

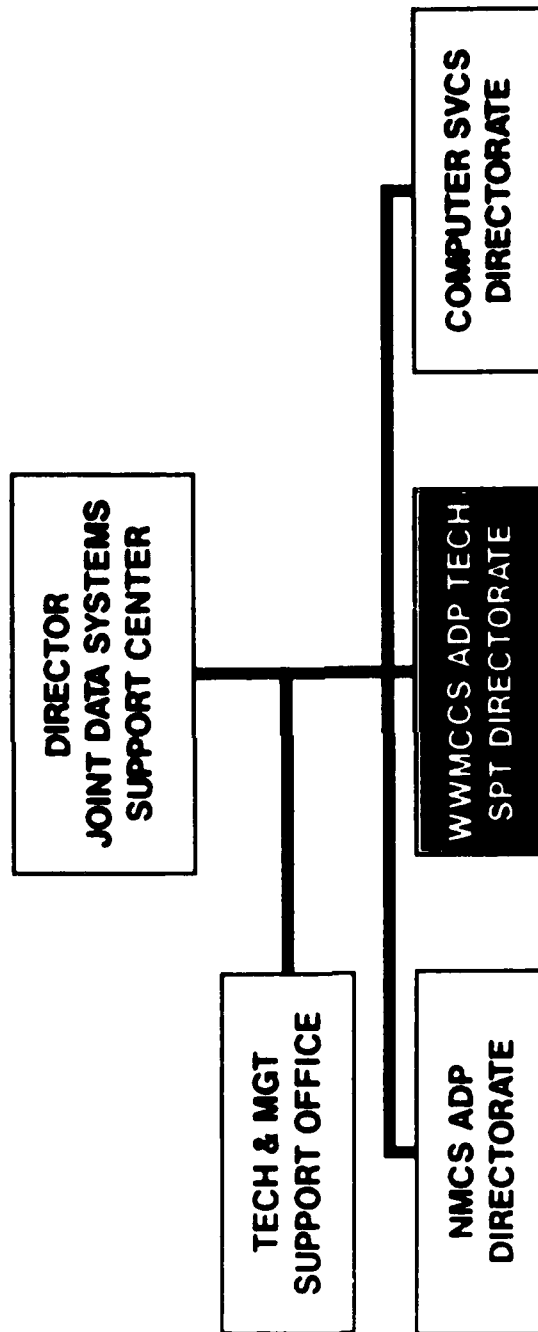
WWMCS STANDARD APPLICATIONS



EXERCISES



JDSSC ORGANIZATION



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WWMCCS ADP TECHNICAL SUPPORT DIRECTORATE FUNCTIONS

- DEVELOP, INTEGRATE, TEST, AND DISTRIBUTE WWMCCS ADP STANDARD SYSTEM SOFTWARE (INCLUDING UNBUNDLED SOFTWARE)
- IDENTIFY WWMCCS ADP REQUIREMENTS FOR SYSTEM SOFTWARE, EQUIPMENT, TRAINING, LOGISTICS, AND CONTRACTUAL SUPPORT
- PROVIDE FOCAL POINT FOR WWMCCS ADP SYSTEMS SOFTWARE CONFIGURATION MANAGEMENT CONTROL
- MANAGE INTEGRATED SYSTEMS TESTING OF THE WWMCCS INFORMATION SYSTEM
- PROVIDE FOCAL POINT FOR WWMCCS INTERCOMPUTER NETWORK
- PROVIDE ON-SITE ADP TECHNICAL ASSISTANCE

WWMCCS ADP TECHNICAL SUPPORT DIRECTORATE SUPPORT AREAS

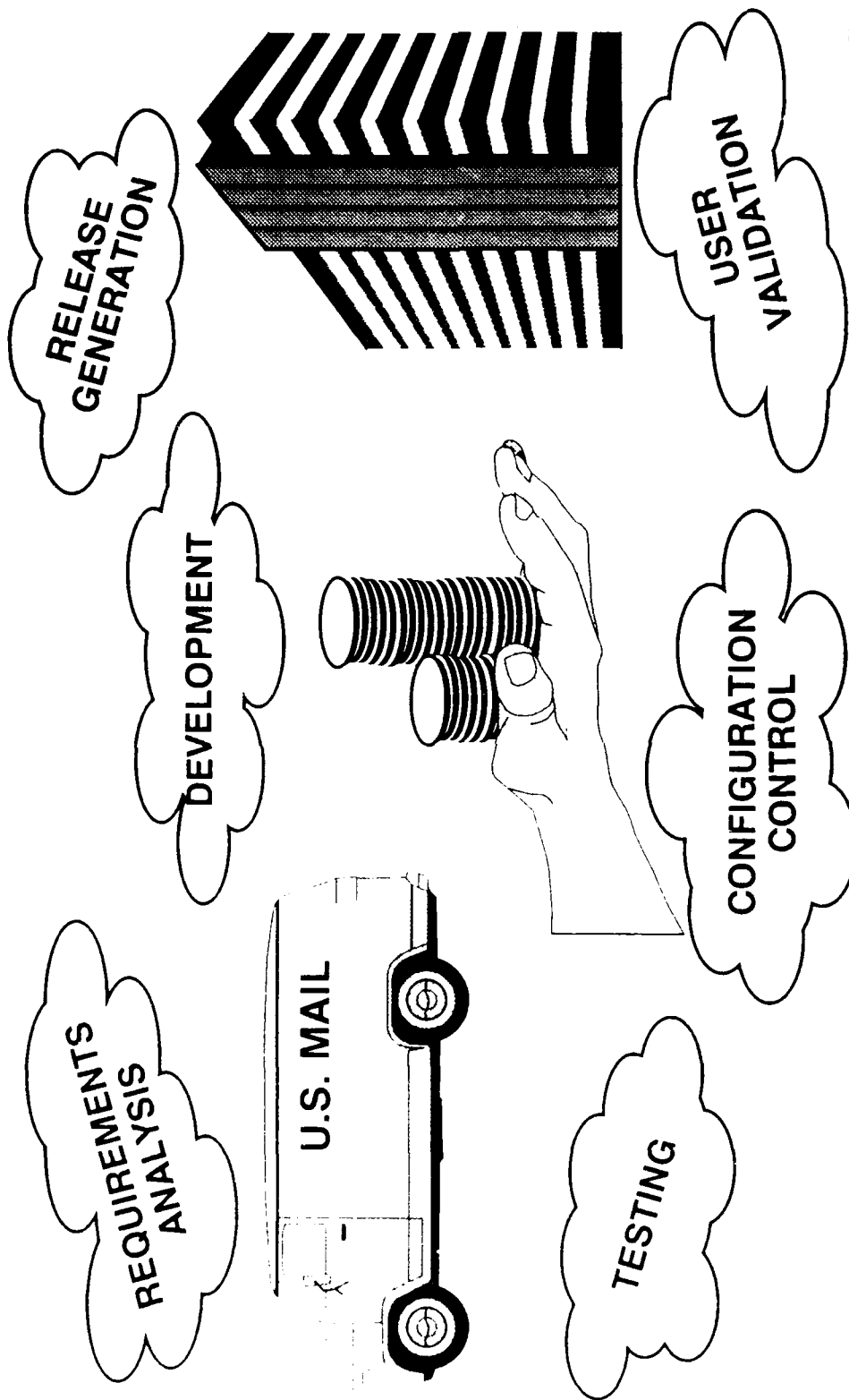
● SYSTEM SOFTWARE ACTIVITIES

● WWMCCS INTERCOMPUTER NETWORK

● SITE ASSISTANCE

● CONFIGURATION MANAGEMENT

SYSTEM SOFTWARE ACTIVITIES



#058-CV

WWMCCS INTERCOMPUTER NETWORK (WIN)

CAPABILITIES

- **TELECONFERENCING**
- **REMOTE ACCESS**
- **FILE TRANSFER**

AD-A195 551

AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS
ASSOCIATION) SYMPOSIUM (2ND... (U) DEFENSE COMMUNICATIONS
AGENCY ARLINGTON VA APR 88

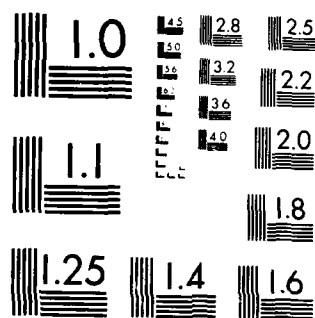
2/3

UNCLASSIFIED

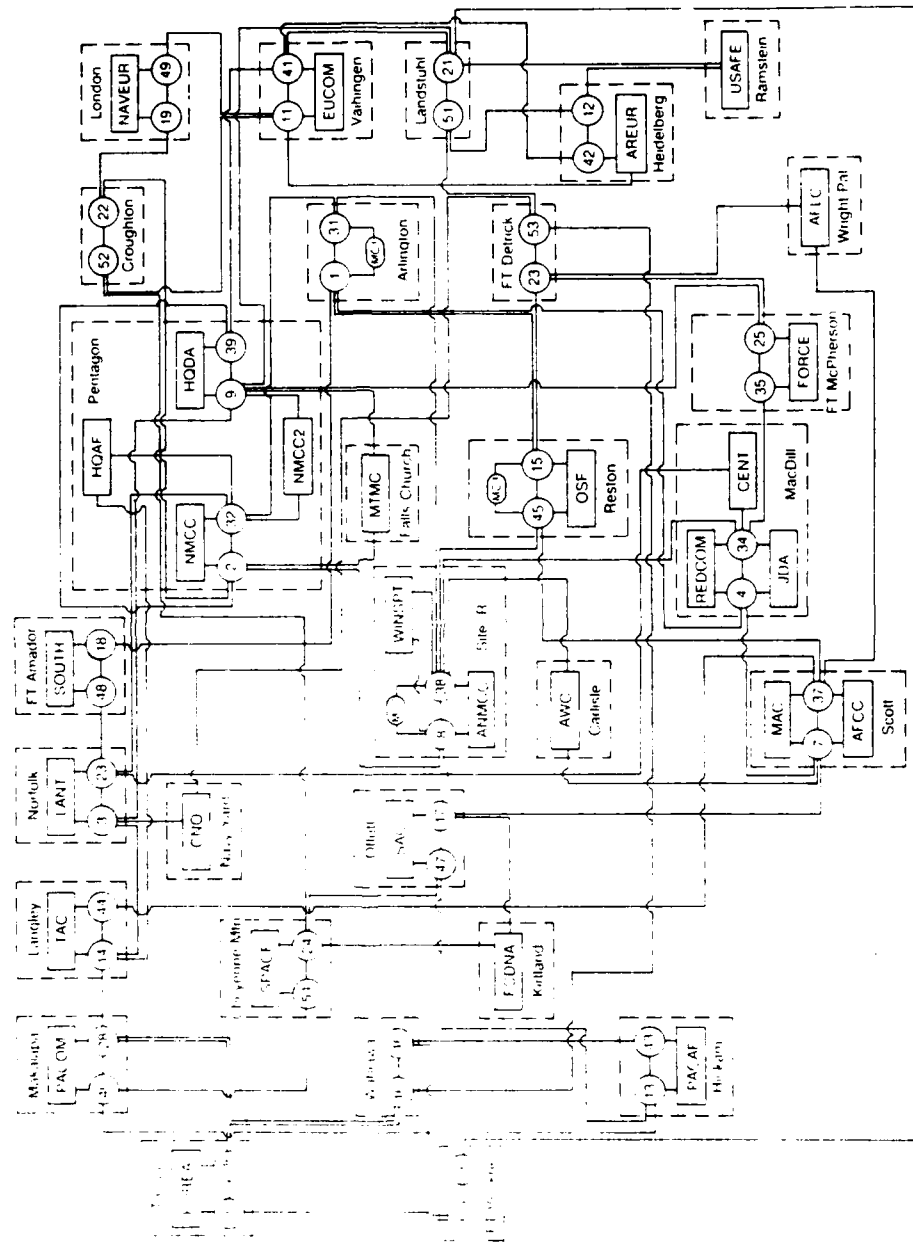
F/G 25/5

NL



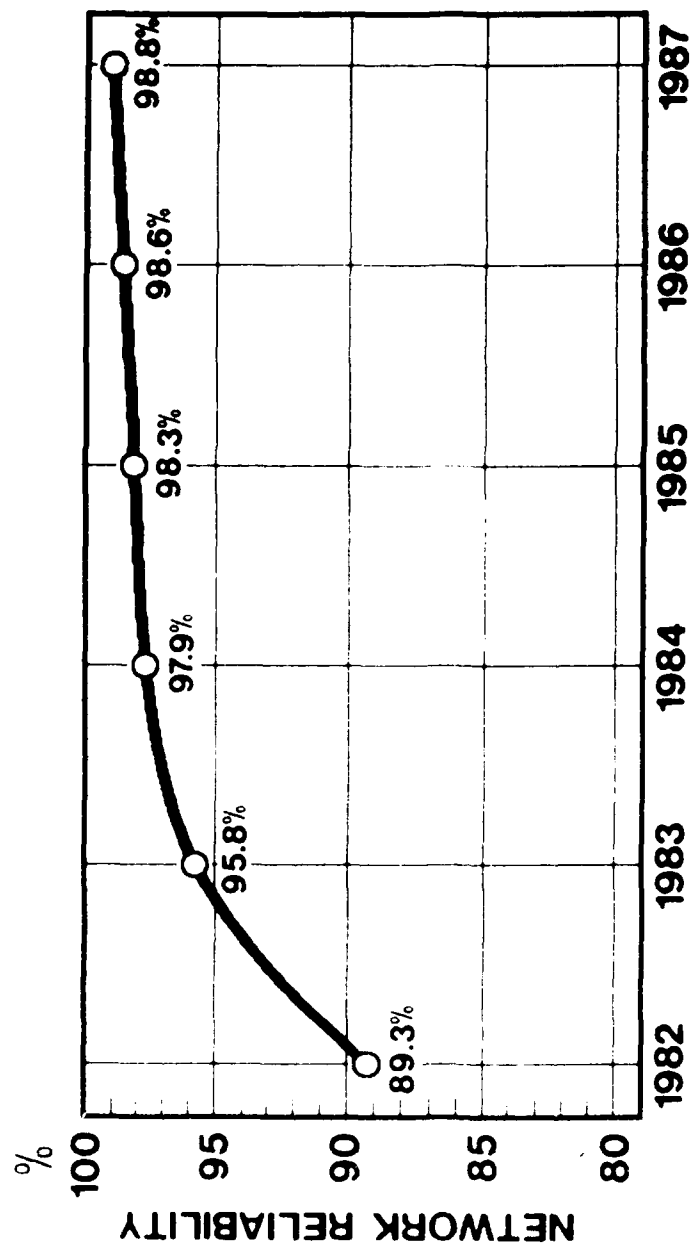


WIN TOPOLOGY

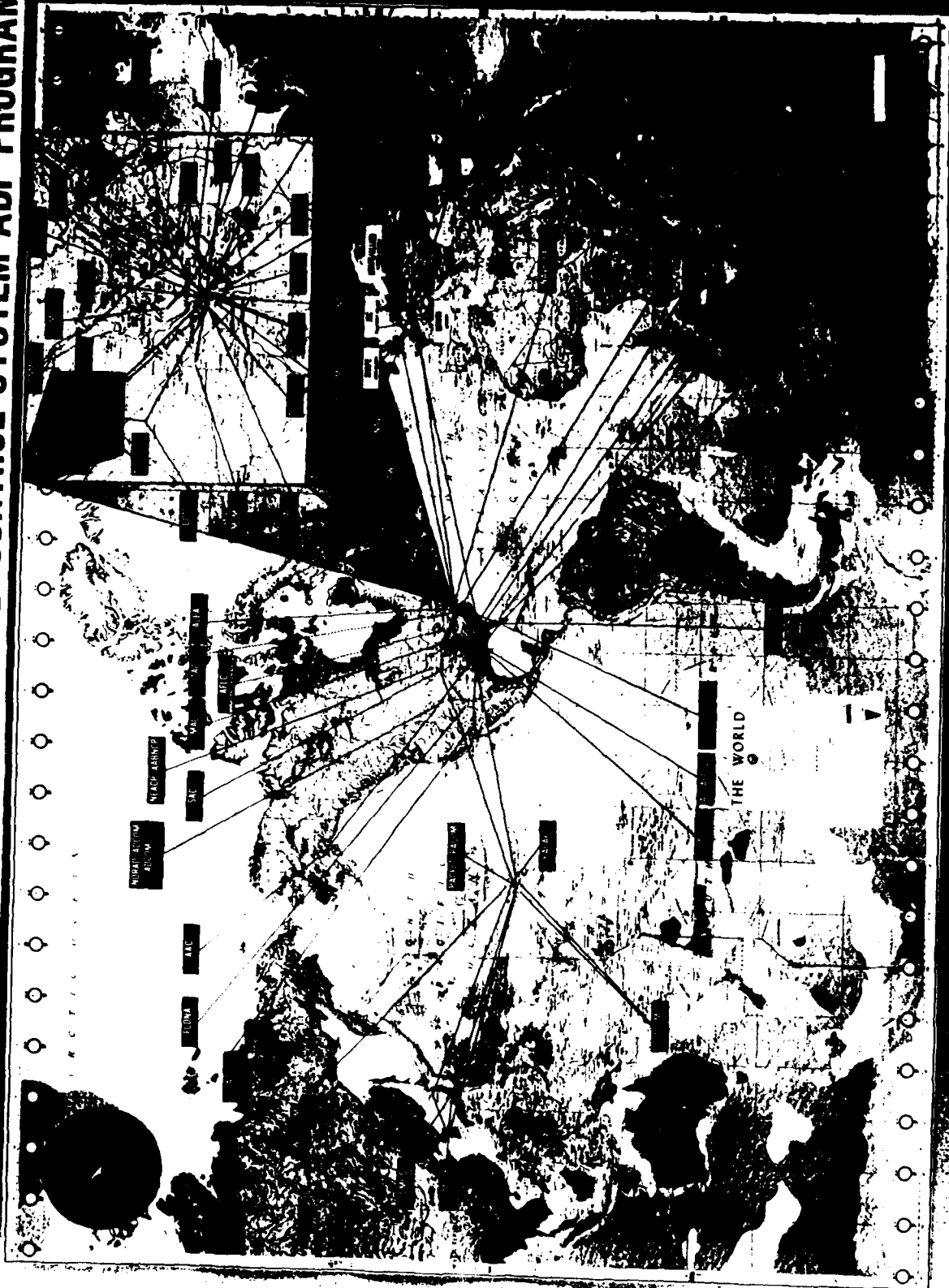


#058-CV

WIN RELIABILITY



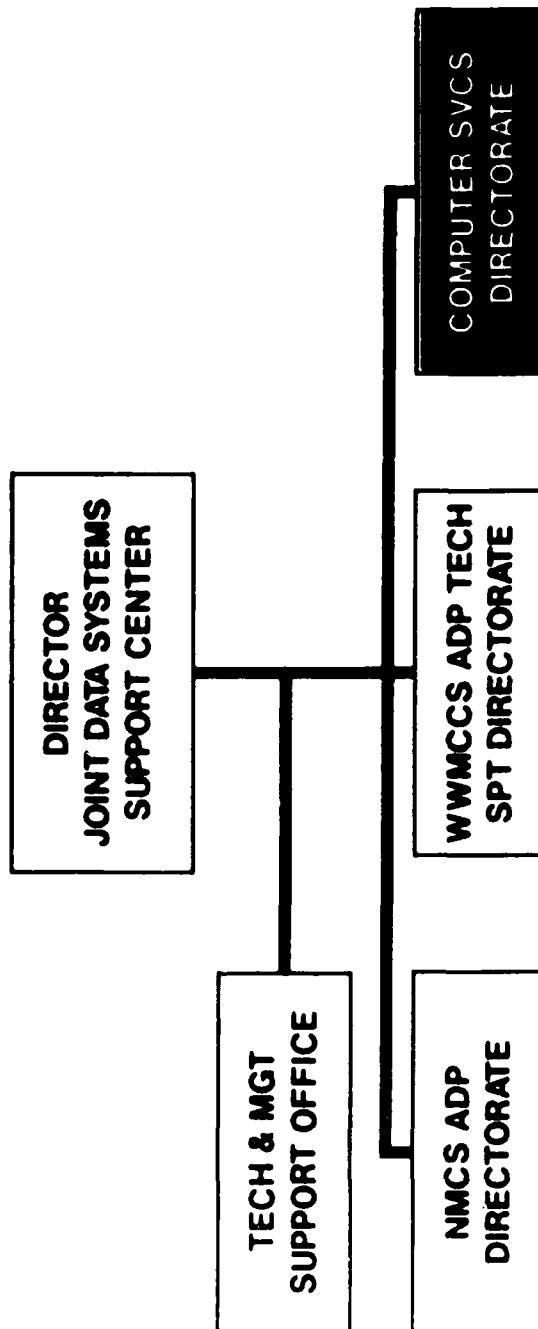
SITE ASSISTANCE WORLDWIDE MILITARY COMMAND AND CONTROL SYSTEM ADP PROGRAM



CONFIGURATION MANAGEMENT

- **NETWORK ACCESSIBLE**
 - SOFTWARE CHANGES
 - HARDWARE/SOFTWARE INCIDENT SUBMISSION & STATUS
- **WORLDWIDE HARDWARE & SOFTWARE**
 - INVENTORY
 - MAINTENANCE/REPAIR HISTORY
- **MANAGEMENT OF SEPARATELY PRICED SOFTWARE**
- **BASELINE MANAGEMENT AND CHANGE CONTROL
FOR WWMCCS STANDARD SYSTEM SOFTWARE**

JDSSC ORGANIZATION



COMPUTER SERVICES DIRECTORATE FUNCTIONS

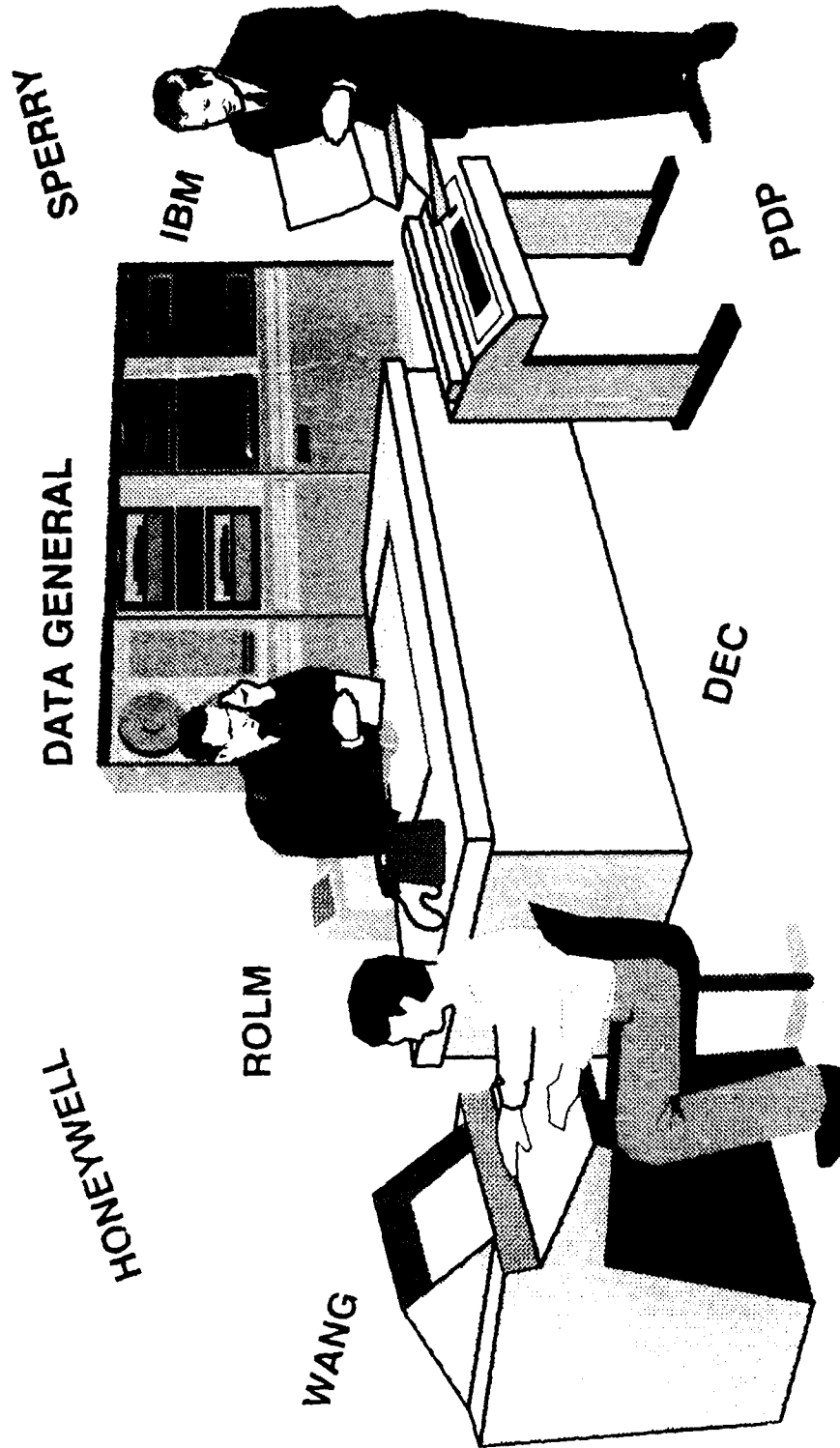
- **MANAGE THE OPERATION OF ALL JDSSC ADP FACILITIES**
- **PROVIDE GENERAL TELEVISION AND ELECTRONIC AUDIOVISUAL SUPPORT**
- **MANAGE WWMCCS INTERCOMPUTER NETWORK OPERATIONS CENTER**
- **DIRECT THE ADP SECURITY PROGRAM**
- **INSTALL AND MAINTAIN SITE OPERATIONAL SYSTEM SOFTWARE**
- **DESIGN, DEVELOP, MAINTAIN, AND APPLY STANDARD WWMCCS ADP COMPUTER PERFORMANCE EVALUATION AND COMPUTER MEASUREMENT TOOLS AND TECHNIQUES**
- **DEVELOP AND PROCESS ACQUISITION ACTIONS FOR ALL ADP HARDWARE, SOFTWARE, EQUIPMENT MAINTENANCE, AND DATA COMMUNICATIONS**

COMPUTER SERVICES DIRECTORATE SUPPORT AREAS

- **COMPUTER BASE**
- **INSTALLATIONS**
- **COMPUTER PERFORMANCE EVALUATION**
- **ADP SECURITY**
- **VISUAL RECORDING FACILITY**

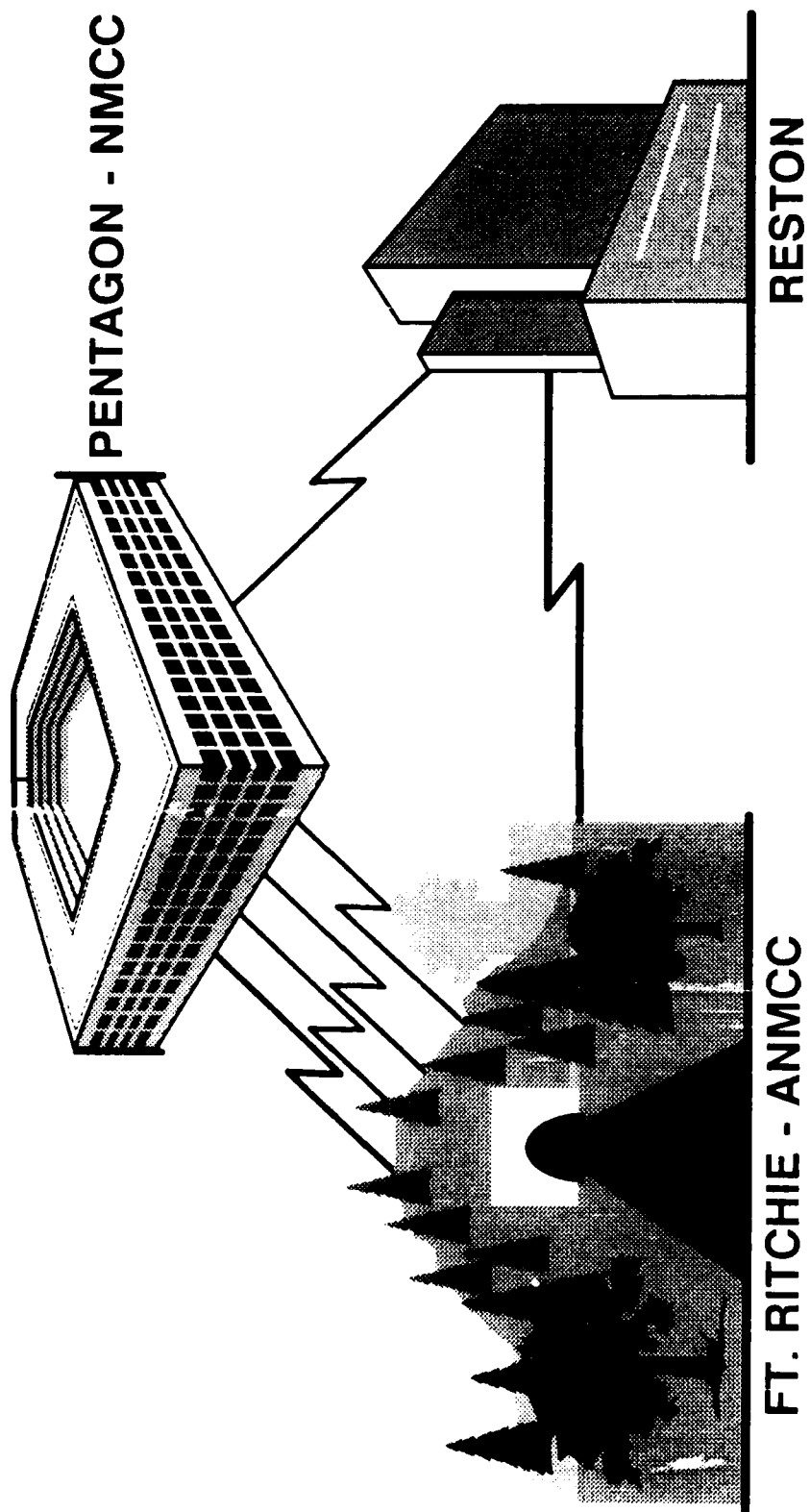
056-45-FEB 88-RC

COMPUTER BASE



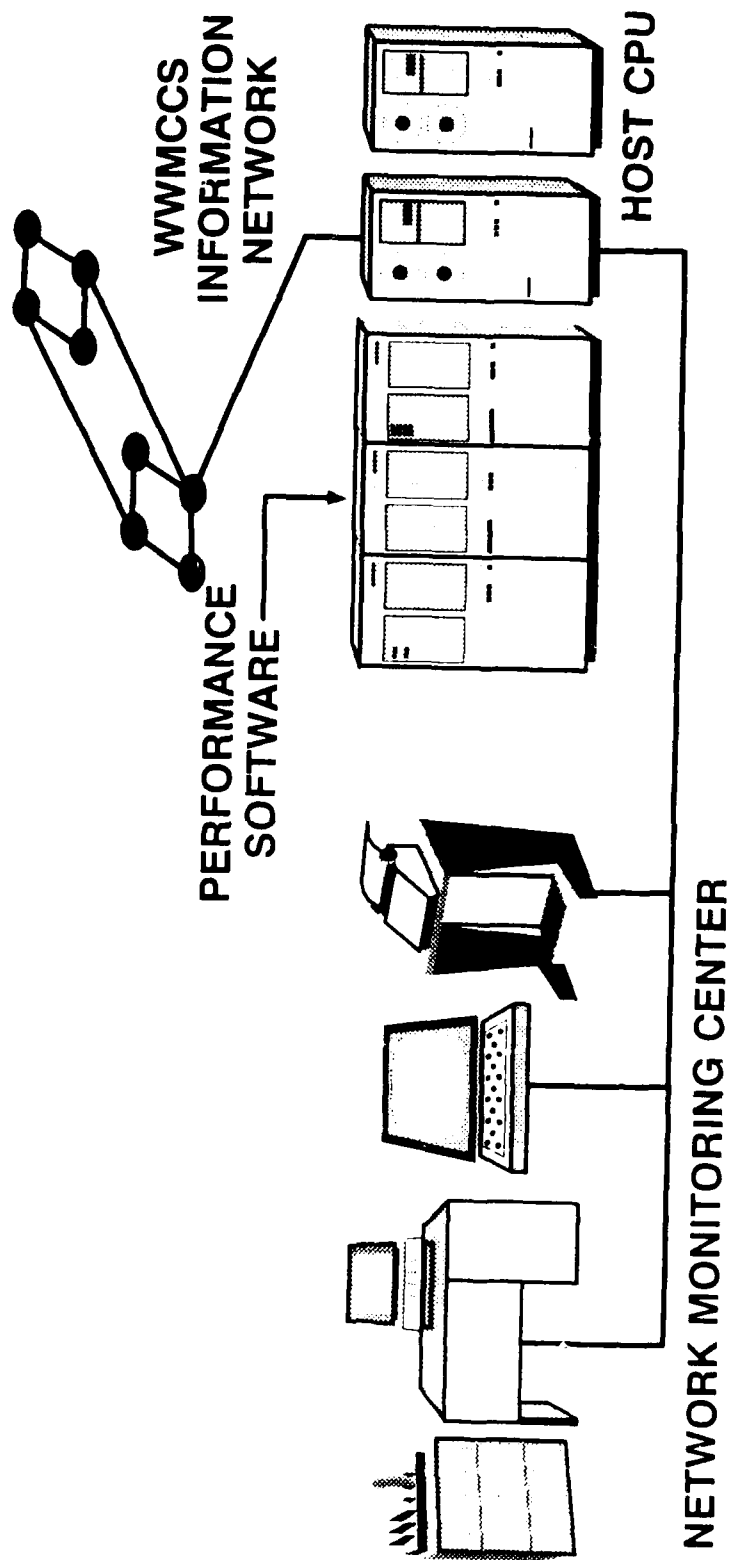
#058-CV

INSTALLATIONS



#058-CV

COMPUTER PERFORMANCE EVALUATION



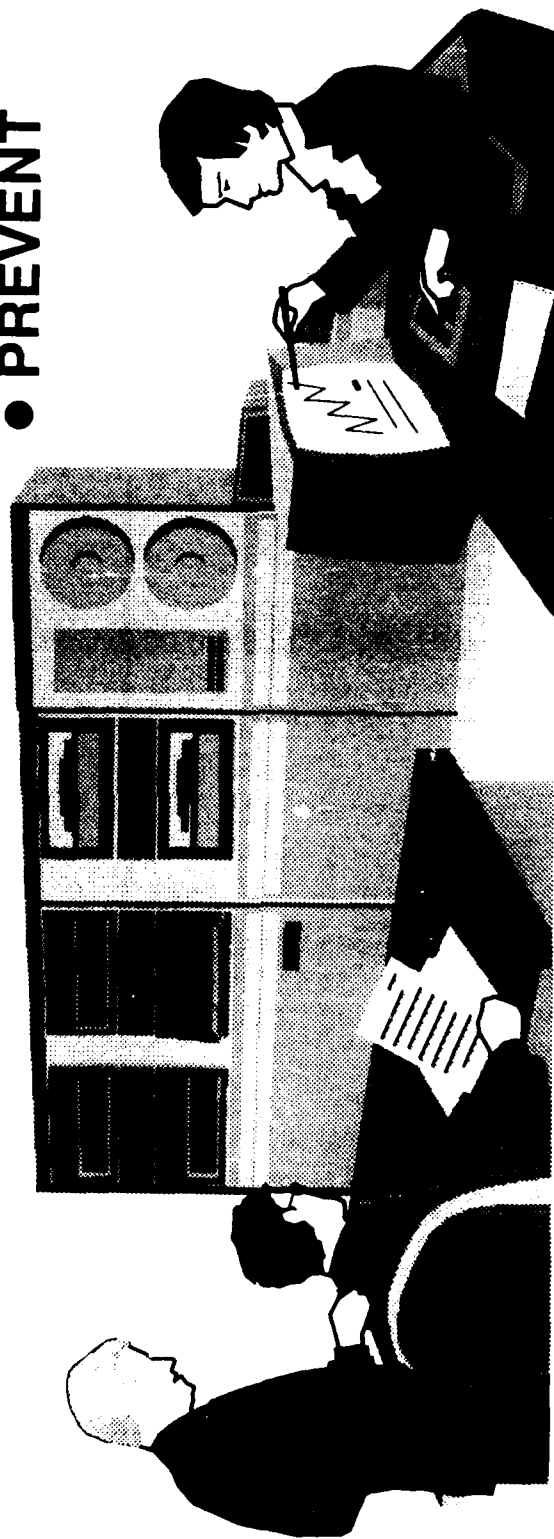
#058-CV

ADP SECURITY

• PROTECT

• PROVIDE

• PREVENT



• COMMUNICATIONS

• EMANATIONS

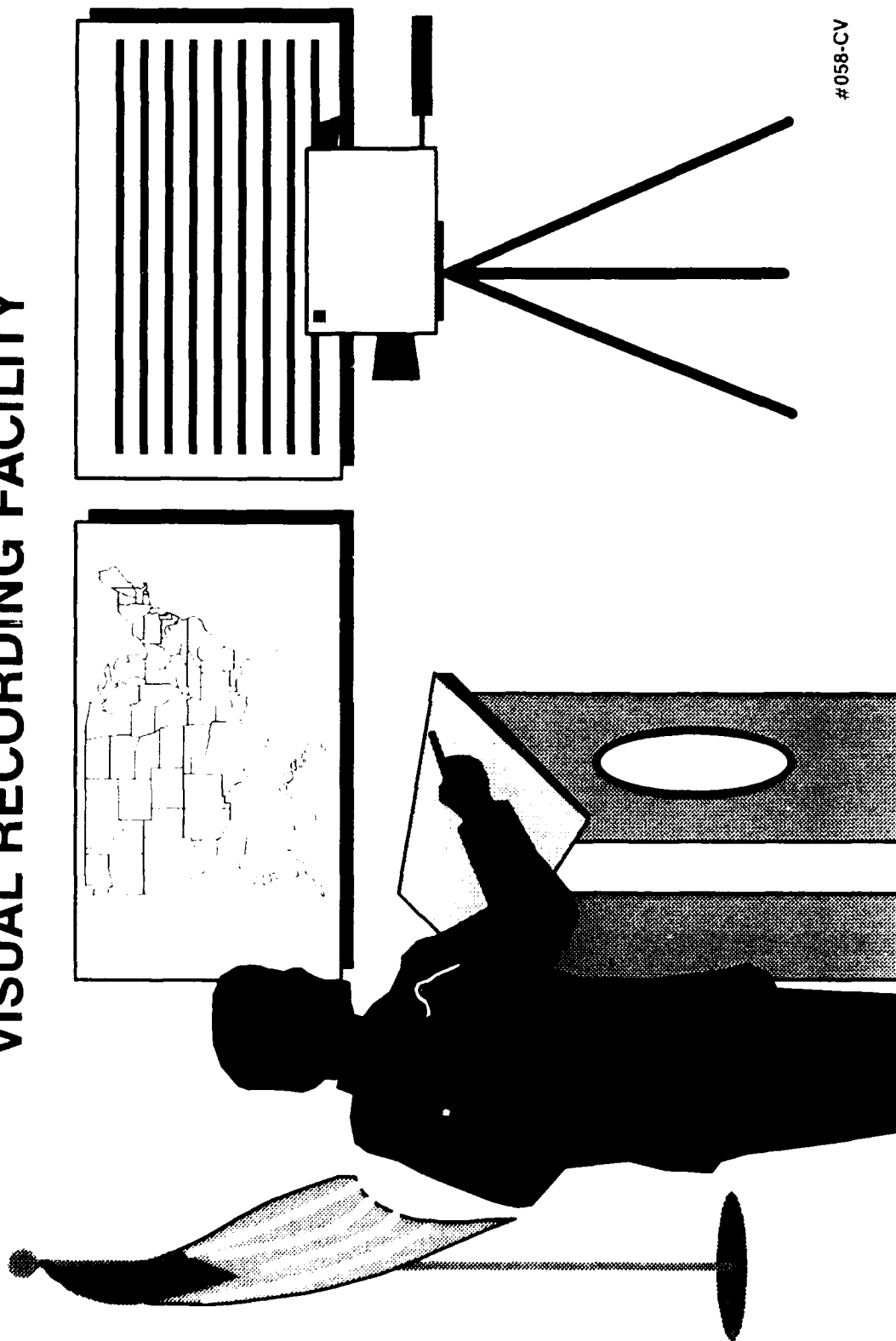
• HARDWARE

• SOFTWARE

• PHYSICAL

• INFORMATION #058-CV

VISUAL RECORDING FACILITY



#058-CV

SUMMARY COMPETITIVE CONTRACTS

TITLE	APPROXIMATE DOLLAR AMOUNT	ANTICIPATED RFP RELEASE DATE
ANALYTICAL SUPPORT TO OSD (STRATEGIC AND THEATER NUCLEAR ANALYSIS)	1.9-2.4M	JUN 88
ANALYTICAL SUPPORT TO OSD (DEFENSE ANALYSIS)	2.6-3.2M	OCT 90
NUCLEAR ADP SUPPORT TO OJCS	13.0-15.0M	OCT 90
MULTI-USER PROJECT	16.0-18.0M	OCT 90
GENERAL ADP SOFTWARE SUPPORT	26.0-28.0M	JUL 89
WWMCCS COMPUTER GRAPHICS SUPPORT	5.0-6.0M	JAN 90
AIR DEFENSE INITIATIVE	2.0-3.0M	OCT 90
OJCS INFORMATION SYSTEM REQUIREMENT, MANAGEMENT AND SUPPORT	9.1-11.2M	JUL 89
HYPERCHANNEL AND INTERCONNECTIVITY	3.6-4.2M 9.3-12.1M	APR 88 JUL 88
WWMCCS INTERCOMPUTER NETWORK (WIN) HOST SOFTWARE	4.7-11.3M	JUN 88
WWMCCS INTERCOMPUTER NETWORK/WWMCCS INFORMATION SYSTEM TEST AND EVALUATION SUPPORT	3.0-4.5M	JUN 89
GENERAL SYSTEM SOFTWARE SUPPORT	6.1-7.9M	JUN 89
TEMPEST TESTING	1.8-2.6M	OCT 89

#067-CV

SMALL AND DISADVANTAGED BUSINESS

TITLE	APPROXIMATE DOLLAR AMOUNT	ANTICIPATED RFP RELEASE DATE
WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM SOFTWARE AND EVALUATION	1.4 - 1.6 M	JAN 90
COMPUTER PERFORMANCE EVALUATION	0.3 - 0.5 M	FEB 90
GRAPHICS SUPPORT	3.6 - 4.4 M	JAN 90
JOINT STAFF SUPPORT INFORMATION SYSTEM	3.3 - 3.9 M	JUN 88
WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM INFORMATION SYSTEM CONFIGURATION MANAGEMENT	1.7 - 2.3 M	MAR 89
JOINT MISSION APPLICATIONS SOFTWARE INTEGRATED SYSTEM TEST	1.0 - 1.4 M	JAN 91
STRATEGIC FORCES ANALYSIS	0.3 - 0.5 M	JUN 91
NUCLEAR WEAPONS TARGETING POLICY	0.3 - 0.5 M	JUN 90

#067-CV

SUMMARY

● JDSSC CHARACTERISTICS

- DIVERSITY IN MISSIONS**
- DEVELOPMENTAL AND OPERATIONAL ROLES**
- WIDE SPECTRUM OF TECHNICAL ACTIVITY**
- OPERATIONS ORIENTED MILITARY STAFF**
- TECHNICALLY ORIENTED CIVILIAN STAFF**
- WORLDWIDE RESPONSIBILITIES**

SUMMARY

- **TECHNICAL CHALLENGES**
 - **GRAPHICS PRESENTATION TECHNIQUES**
 - **DATABASE CONVERSION**
 - **COMPUTER MODELING**
 - **NETWORKING**
 - **IMPLEMENTATION OF ADA**
 - **WIS TRANSITION**



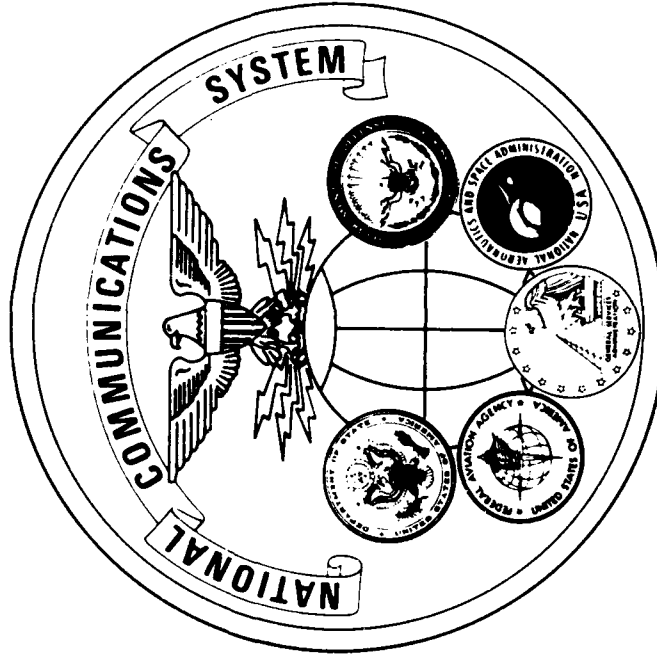
DEFENSE COMMUNICATIONS AGENCY

**JOINT DATA SYSTEMS
SUPPORT CENTER**



050-1-FEB 80-RC

NCS OVERVIEW



#057-J-CV

THE NATIONAL COMMUNICATIONS SYSTEM

- MISSION

**TO ASSIST THE PRESIDENT, NATIONAL SECURITY COUNCIL,
OFFICE OF SCIENCE AND TECHNOLOGY POLICY AND THE
OFFICE OF MANAGEMENT AND BUDGET IN:**

- **THE EXERCISE OF THEIR WARTIME AND NON-WARTIME
EMERGENCY FUNCTIONS, AND THEIR PLANNING AND
OVERSIGHT RESPONSIBILITIES**
- **THE COORDINATION OF THE PLANNING FOR AND
PROVISION OF NSEP COMMUNICATIONS FOR THE
FEDERAL GOVERNMENT UNDER ALL CIRCUMSTANCES,
INCLUDING CRISIS OR EMERGENCY**

THE NATIONAL COMMUNICATIONS SYSTEM

- KEY RESPONSIBILITIES

- **SEEK DEVELOPMENT OF A NATIONAL TELECOMMUNICATIONS INFRASTRUCTURE WHICH:**
 - **IS RESPONSIVE TO NSEP NEEDS OF THE PRESIDENT AND THE FEDERAL GOVERNMENT**
 - **IS CAPABLE OF SATISFYING PRIORITY TELECOMMUNICATIONS REQUIREMENTS**
 - **INCORPORATES THE NECESSARY COMBINATION OF HARDNESS, REDUNDANCY, MOBILITY, CONNECTIVITY, INTEROPERABILITY, RESTORABILITY, AND SECURITY TO MAXIMIZE SURVIVABILITY**
 - **IS CONSISTANT WITH OTHER NATIONAL POLICIES**
- **SERVE AS A FOCAL POINT FOR JOINT INDUSTRY-GOVERNMENT NSEP TELECOMMUNICATIONS PLANNING**
- **ESTABLISH A JOINT INDUSTRY-GOVERNMENT NATIONAL COORDINATING CENTER**

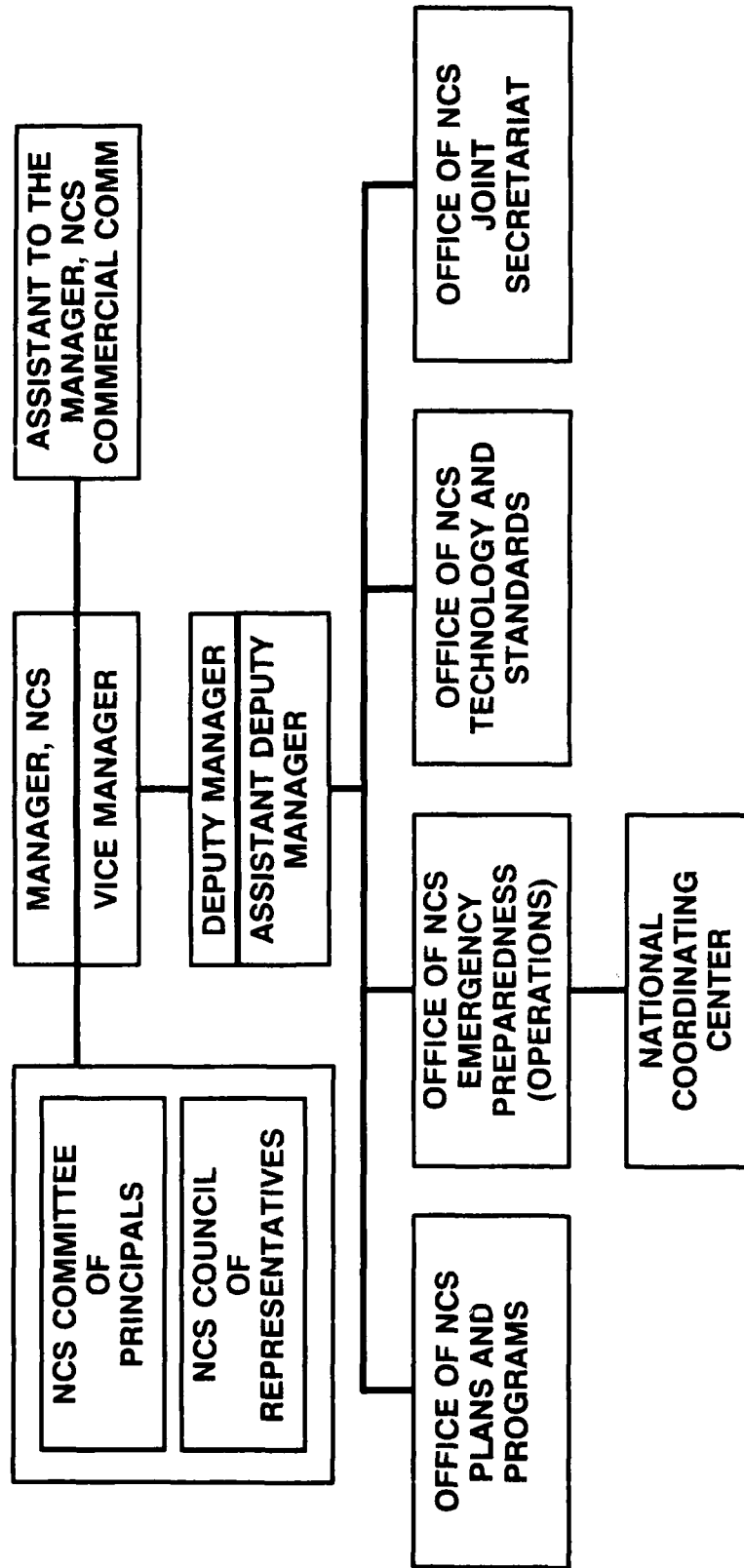
THE NATIONAL COMMUNICATIONS SYSTEM - COMPOSITION

- **EXECUTIVE AGENT**

- **COMMITTEE OF PRINCIPALS AND THE
TELECOMMUNICATIONS ASSETS OF THE
ENTITIES THEREON**

- **MANAGER**

OFFICE OF THE MANAGER, NATIONAL COMMUNICATIONS SYSTEM



#057-J-CV

NCS NSEP TELECOMMUNICATIONS PROGRAMS

- **INDUSTRY-GOVERNMENT JOINT PLANNING**
- **NSEP TELECOMMUNICATIONS ARCHITECTURE**
- **NSEP TELECOMMUNICATIONS MANAGEMENT**
- **TECHNICAL STANDARDS AND INTEROPERABILITY**

**INDUSTRY-GOVERNMENT
JOINT PLANNING FOR NSEP
TELECOMMUNICATIONS**

INDUSTRY-GOVERNMENT JOINT PLANNING MAJOR CONTRACTUAL EFFORTS

CURRENT

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN HAMILTON	<3M	MAY 87 - MAY 90

NSEP TELECOMMUNICATIONS ARCHITECTURE - E.O. 12472

**THE MANAGER SHALL DEVELOP
A "RECOMMENDED EVOLUTIONARY
TELECOMMUNICATIONS ARCHITECTURE
DESIGNED TO MEET CURRENT AND
FUTURE FEDERAL GOVERNMENT NSEP
TELECOMMUNICATIONS REQUIREMENTS":**

TELECOMMUNICATIONS ARCHITECTURE MAJOR CONTRACTUAL EFFORTS

CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN & HAMILTON	> 10M	MAY 87 - MAY 90
DCA 100-87-C-0101	SHARES	C-CUBED	< 1M	JUN 87 - JUN 88
DCA 100-86-C-0015	NETS, TASK IV	AT&T	> 10M	JAN 86 - APR 88
DCA 100-87-C-0139	NETS APPLICATION TO NTI DMS FAMILY	NTI	< 10M	SEP 87 - MAR 90
DCA 100-87-C-0142	US SPRINT SUPPORT TO NETS	US SPRINT	< 3M	SEP 87 - MAR 90
	MCI SUPPORT TO NETS	MCI	< 3M	FEB 88 - AUG 90
	NETS MAINTENANCE AND CONFIGURATION MGMT	NETWORK SOLUTIONS	< 5M	JAN 88 - JAN 91
DCA 100-87-C-0042	CSI PILOT PROGRAM	CONTEL	< 5M	AUG 87 - SEP 94
DCA 100-87-C-0043	CSI ITT&C (RCA)	CONTEL	< 10M	AUG 87 - SEP 94

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TELECOMMUNICATIONS ARCHITECTURE MAJOR CONTRACTUAL EFFORTS

FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>RFP ANTICIPATED DATE</u>	<u>PERIOD OF PERFORMANCE</u>
NETS PROGRAM			
LOCAL EXCHANGE CARRIER SUPPORT TO NETS	<5M	CURRENT (COMPETITIVE)	JUN 88 - JAN 90
ROBUST NON-HIERARCHICAL ROUTING IN AT&T NETWORK	>5M	CURRENT (AT&T)	AUG 88 - SEP 92
SURVIVABLE SIGNALING IN THE AT&T NETWORK	>10M	CURRENT (AT&T)	SEP 88 - SEP 91
NETS SETA SUPPORT	>5M	APR 88 (COMPETITIVE)	SEP 88 - SEP 91
NETS PRIME CONTRACTOR	>10M	AUG 89 (COMPETITIVE)	DEC 90 - DEC 95
CNS PROGRAM			
CNS DATA COLLECTION	<5M	CURRENT (8A)	APR 88 - MAR 91
CNS DATA SERVICES	<5M	CURRENT (8A)	SEP 88 - AUG 91
CSI PROGRAM			
CSI COMM INTEROP	>10M	CURRENT (COMPETITIVE)	JUN 88 - JUN 96
CSI ITT&C (HUGHES)	<5M	CURRENT (COMPETITIVE)	APR 88 - APR 96

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NSEP TELECOMMUNICATIONS MANAGEMENT - E.O. 12472

**THE MANAGER SHALL DEVELOP "PLANS
AND PROCEDURES FOR THE MANAGEMENT,
ALLOCATION AND USE, INCLUDING THE
ESTABLISHMENT OF PRIORITIES OR
PREFERENCES, OF FEDERALLY OWNED
OR LEASED TELECOMMUNICATIONS ASSETS
UNDER ALL CONDITIONS OF CRISIS OR
EMERGENCY":**

TELECOMMUNICATIONS MANAGEMENT MAJOR CONTRACTUAL EFFORTS

CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN HAMILTON	<10M	FEB 87 - FEB 90
DCA 100-87-C-0131	EMERGENCY PREPAREDNESS MGMT INFORMATION SYS	BOOZ-ALLEN HAMILTON	<5M	SEP 87 - SEP 90
DCA 100-87-C-0136	TELECOMMUNICATIONS SERVICES PRIORITY SYSTEM, SYSTEM ENGINEERING AND TECHNICAL ANALYSIS	NETWORK STRATEGIES INC	<5M	SEP 87 - SEP 90

FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED RFP DATE</u>	<u>PERIOD OF PERFORMANCE</u>
EMERGENCY PREPAREDNESS MGMT INFORMATION SYSTEM EXPERT SYSTEM RESOURCE ALLOCATION MODULE INTEGRATION	<1M	MAR 88 (SBA)	JUN 88 - MAY 89

#057-CV

TECHNICAL STANDARDS AND INTEROPERABILITY - E.O. 12472

**THE MANAGER SHALL DEVELOP "PLANS,
PROCEDURES AND STANDARDS FOR MINIMIZING
OR REMOVING TECHNICAL IMPEDIMENTS TO THE
INTEROPERABILITY OF GOVERNMENT-OWNED
AND/OR COMMERCIALY-PROVIDED
TELECOMMUNICATIONS SYSTEMS":**

TECHNICAL STANDARDS AND INTEROPERABILITY MAJOR CONTRACTUAL EFFORTS

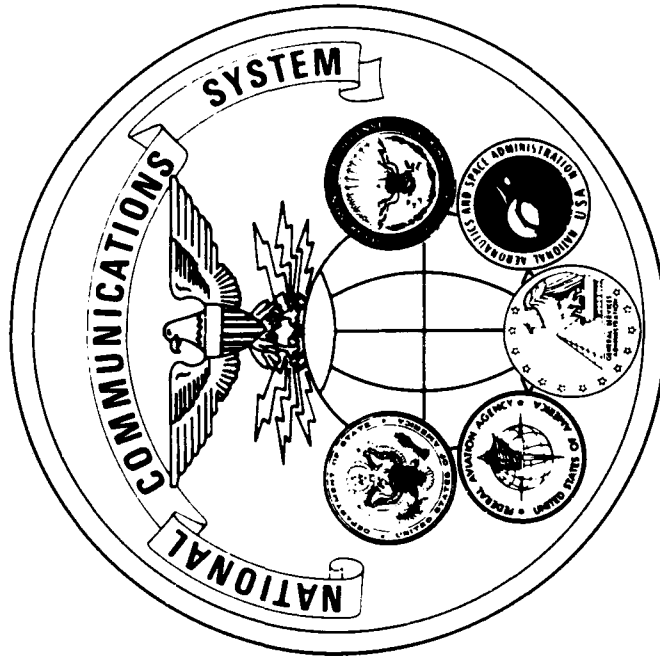
CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN HAMILTON	<1M	MAY 87 - MAY 90
DCA 100-87-C-0078	STUDIES & ANALYSIS IN SUPPORT OF FED TELECOM STDS RELATING TO FACSIMILE & VIDEO TELECONFERENCING	DELTA INFORMATION SYSTEMS	<2M	JUN 87 - SEP 90
DCA 100-87-C-0027	EMP ASSESSMENT OF #4 ESS	AT&T	>5M	DEC 87 - DEC 90

FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED RFP DATE</u>	<u>PERIOD OF PERFORMANCE</u>
EMP VULNERABILITY ANALYSIS OF DIGITAL SWITCHES IN PUBLIC SWITCHED NETWORK	<1M	CURRENT (8A)	JUL 88 - JUN 89
RADIATION HARDNESS ASSESSMENT OF 4ESS	<2M	JUN 88 (AT&T)	JUL 88 - JUN 90 #057-CV

THE NATIONAL COMMUNICATIONS SYSTEM

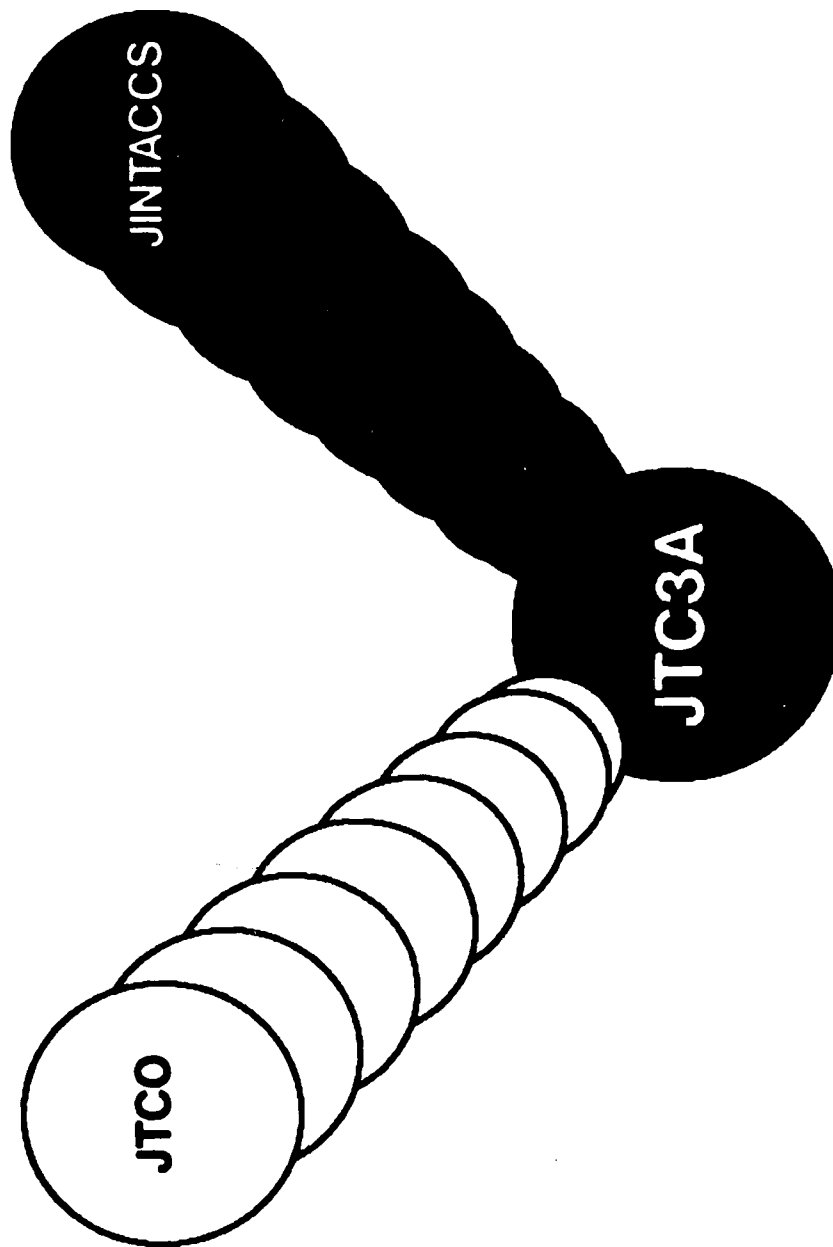


#057-J-CV

#056-H-CV



FORMATION OF JTC3A

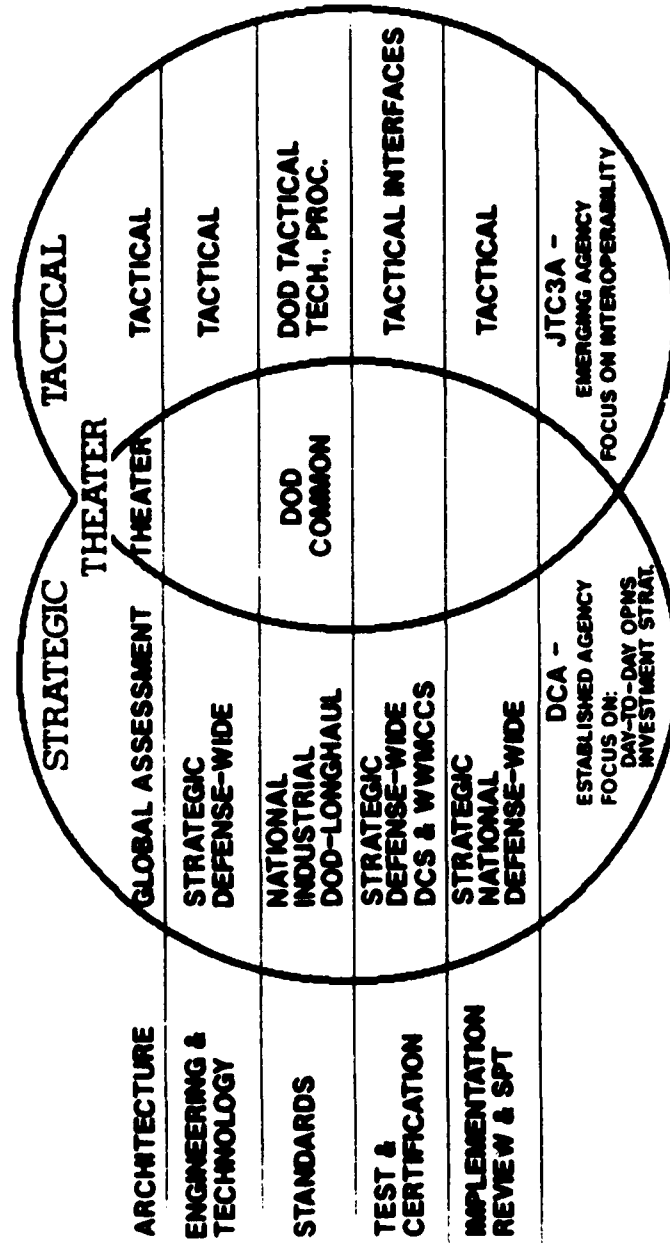


056-2-FEB 88-RC

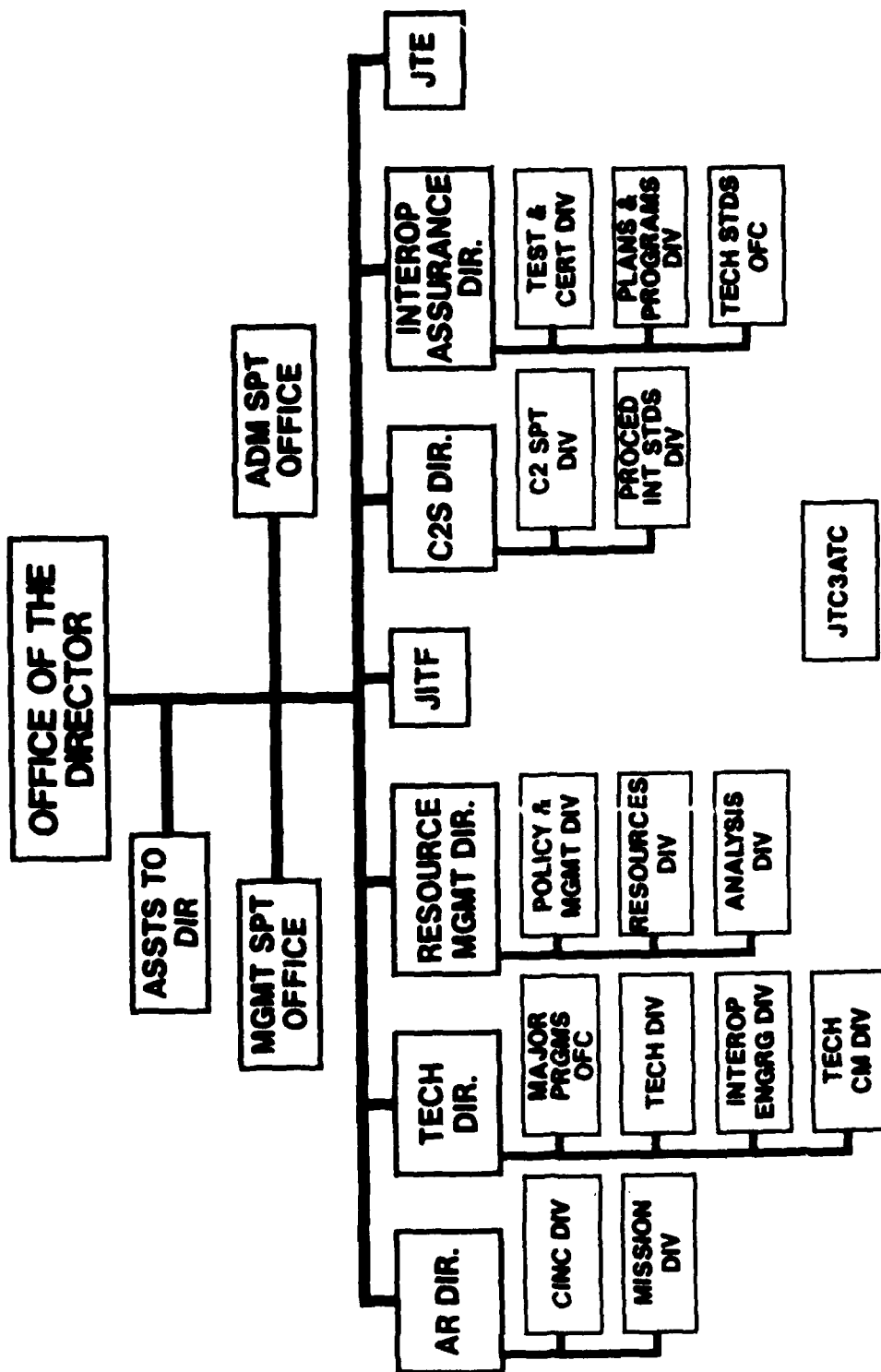
JTC3A MISSION

THE JTC3A SHALL ENSURE THE INTEROPERABILITY OF TACTICAL COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS FOR JOINT OR COMBINED OPERATIONS (INCLUDING NONSTRATEGIC NUCLEAR FORCES) THROUGH THE DEVELOPMENT AND MAINTENANCE OF A JOINT ARCHITECTURE, INTERFACE STANDARDS, AND INTERFACE DEFINITIONS FOR TACTICAL/MOBILE C3 SYSTEMS.

CONSOLIDATION: THE MEETING OF TWO C3 WORLDS

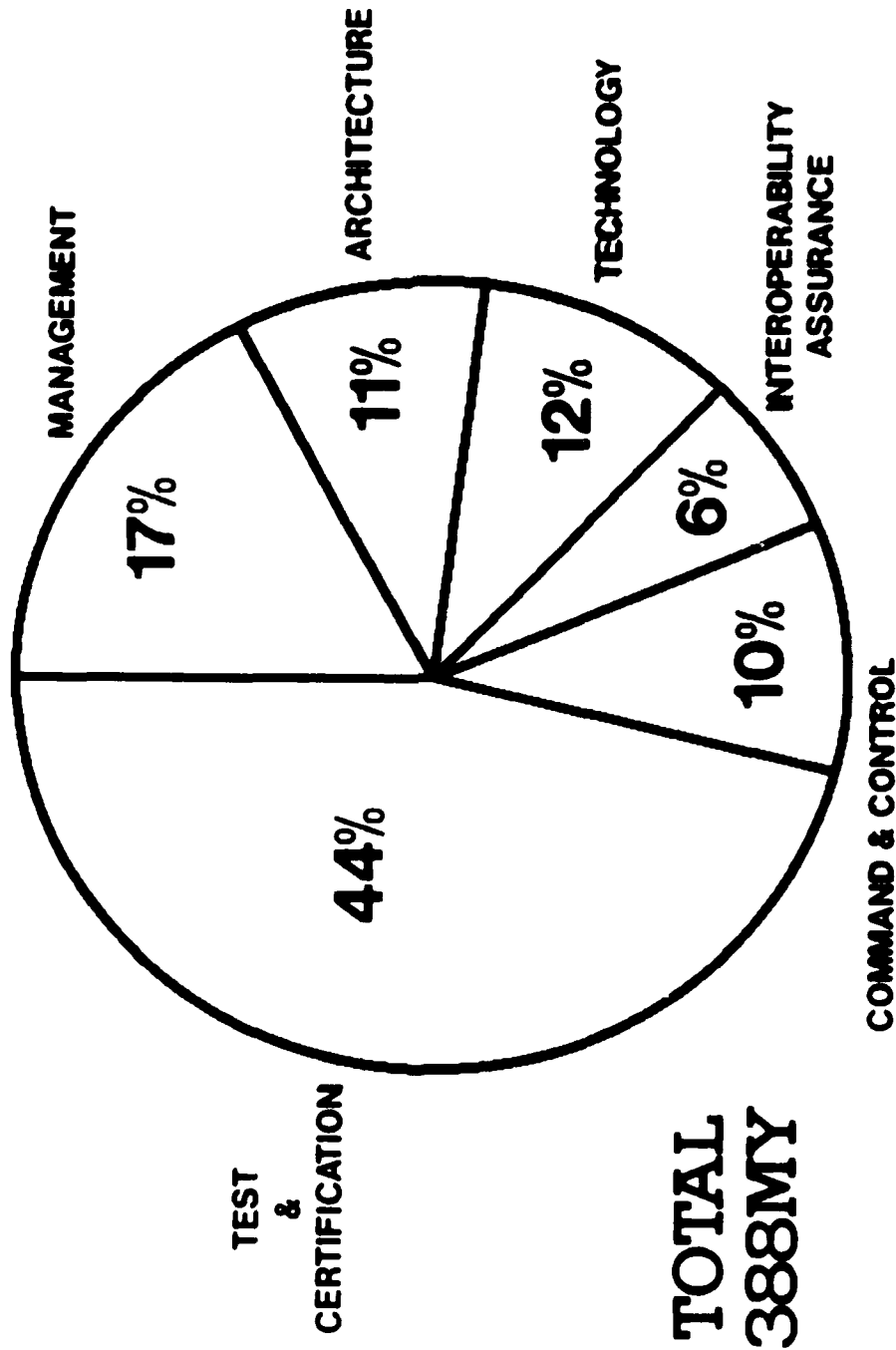


JTC3A ORGANIZATION

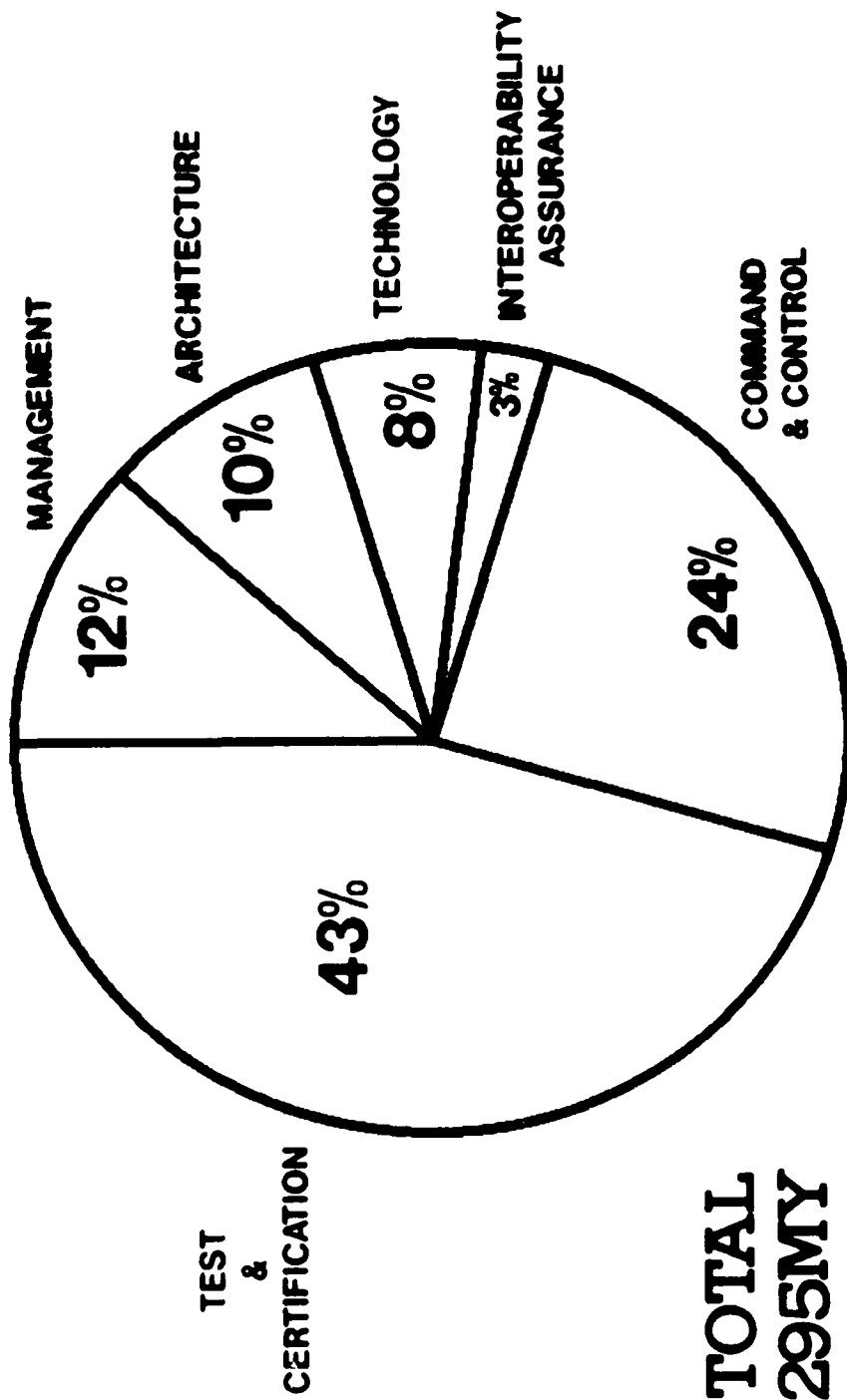


OS6-5-FEB 88-RC

PERSONNEL UTILIZATION BY FUNCTIONAL AREA - FY88

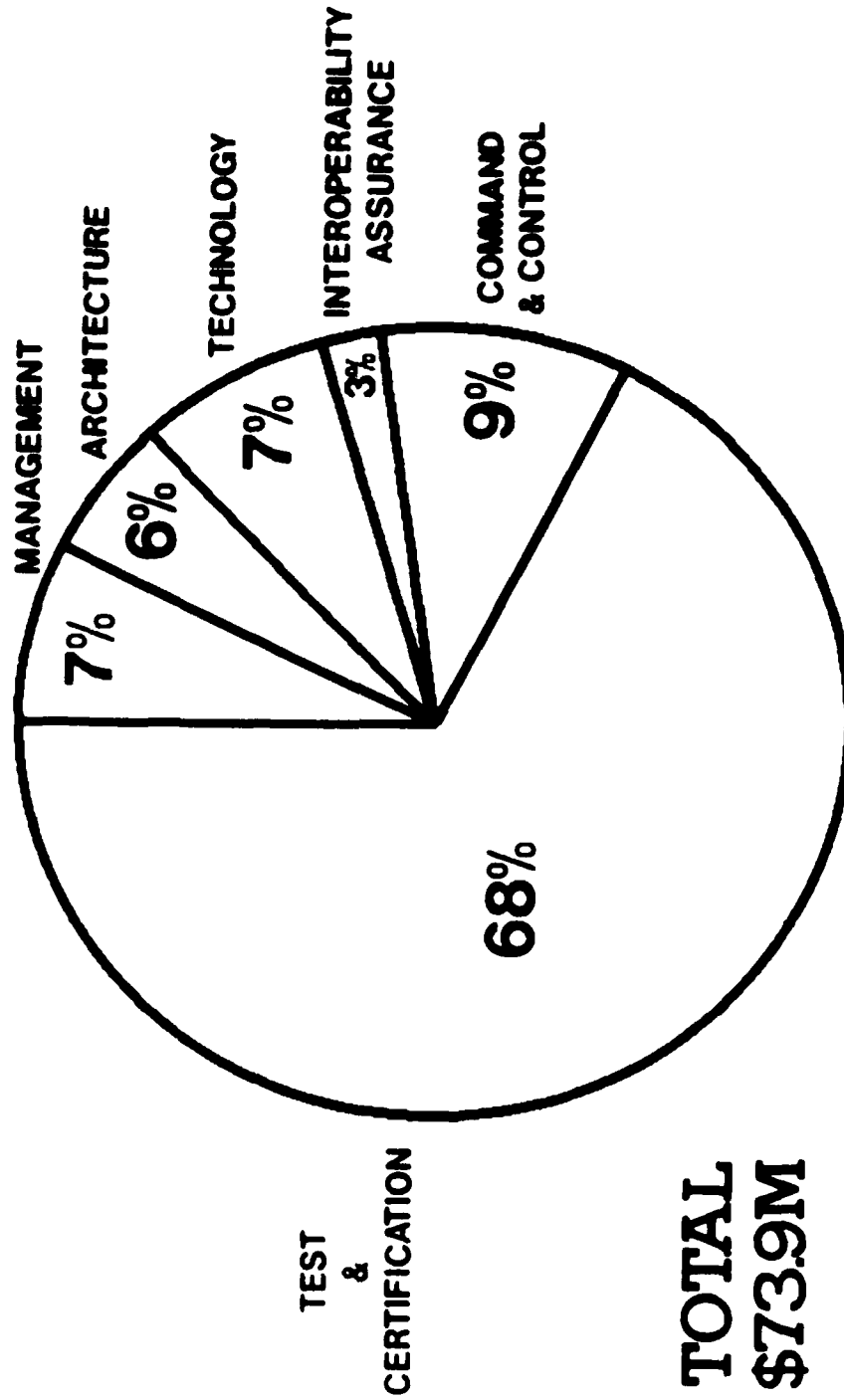


CONTRACTOR UTILIZATION BY FUNCTIONAL AREA - FY88



056-7-FEB 88-RC

BUDGET ALLOCATION BY FUNCTIONAL AREA - FY88



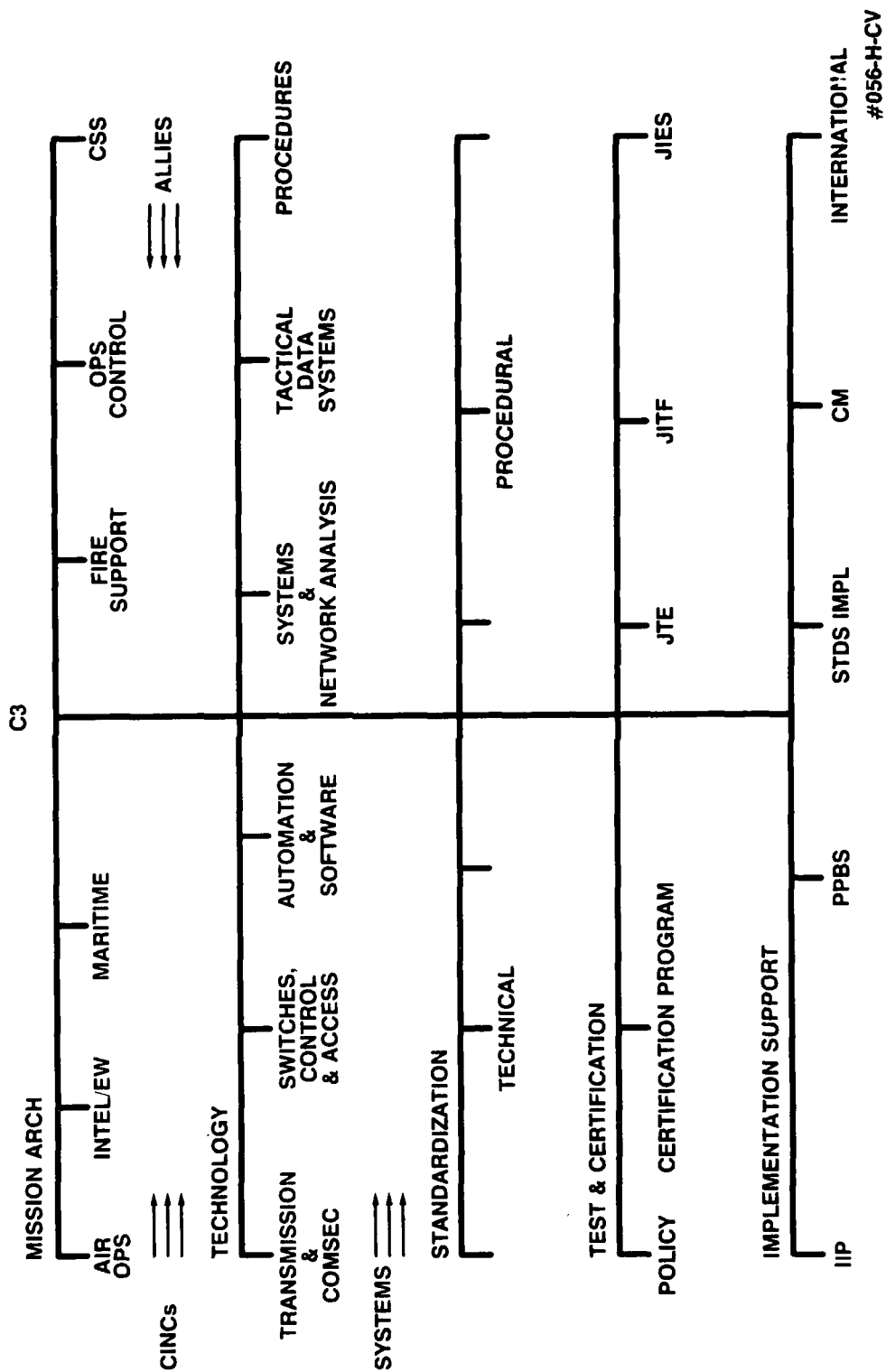
**TOTAL
\$73.9M**

JTC3A IMPACT ON CONTRACTS

JOINT TACTICAL C3 SYSTEM LIFE-CYCLE IMPACT

- **REVIEW REQUIREMENTS DOCUMENTS TO ENSURE JOINT INTEROPERABILITY CONSIDERED IN CONJUNCTION WITH EXISTING ARCHITECTURES**
- **REVIEW DEVELOPMENTAL TEST PLANS TO ENSURE JOINT INTEROPERABILITY STANDARDS IMPLEMENTED**
- **MONITOR OR CONDUCT TESTS DURING DEVELOPMENT TO ENSURE JOINT INTEROPERABILITY STANDARDS ADHERED TO**
- **MONITOR OR CONDUCT TESTS OF PRODUCTION MODELS FOR CERTIFICATION FOR JOINT USE**
- **CONFIGURATION MANAGE AND TEST THROUGH OPERATIONAL LIFE TO ENSURE CONTINUING JOINT INTEROPERABILITY**

CONCEPT OF OPERATIONS



ARCHITECTURE

- **FIRST LEVEL ARCHITECTURE**
- **JOINT CONNECTIVITY HANDBOOK**
- **REQUIREMENTS & INTEROPERABILITY DATA BASES**
- **MISSION ARCHITECTURES**
- **CINC ARCHITECTURES**
- **SPECIAL ARCHITECTURES**

ASSESSMENTS

● TECHNOLOGY

- SPECIFIC TECHNOLOGY (e.g., HF)
- TECHNOLOGICAL ISSUES AFFECTING INTEROPERABILITY
- RECOMMENDED IMPROVEMENTS

- TECHNOLOGICAL REFERENCE TUTORIAL

● SYSTEMS

- SPECIFIC C3 SYS. (ONE OR MORE TECHNOLOGIES)(e.g., MSE)
- TECHNICAL, PROCEDURAL, OPERATIONAL ISSUES
- RECOMMENDED IMPROVEMENTS

INTEROPERABILITY ASSURANCE

- **FIVE-YEAR INTEROPERABILITY ASSURANCE
PLAN (FYIAP)**

- **TESTING**

- PROCEDURAL
- HARDWARE
- TACTICAL/STRATEGIC INTERFACES
- CERTIFICATION

INTEROPERABILITY ASSURANCE (CONT'D)

- **STANDARDS**

- **TECHNICAL**

- **MIL STDs**

- **INTERFACE SPECIFICATIONS**

- **PROCEDURAL**

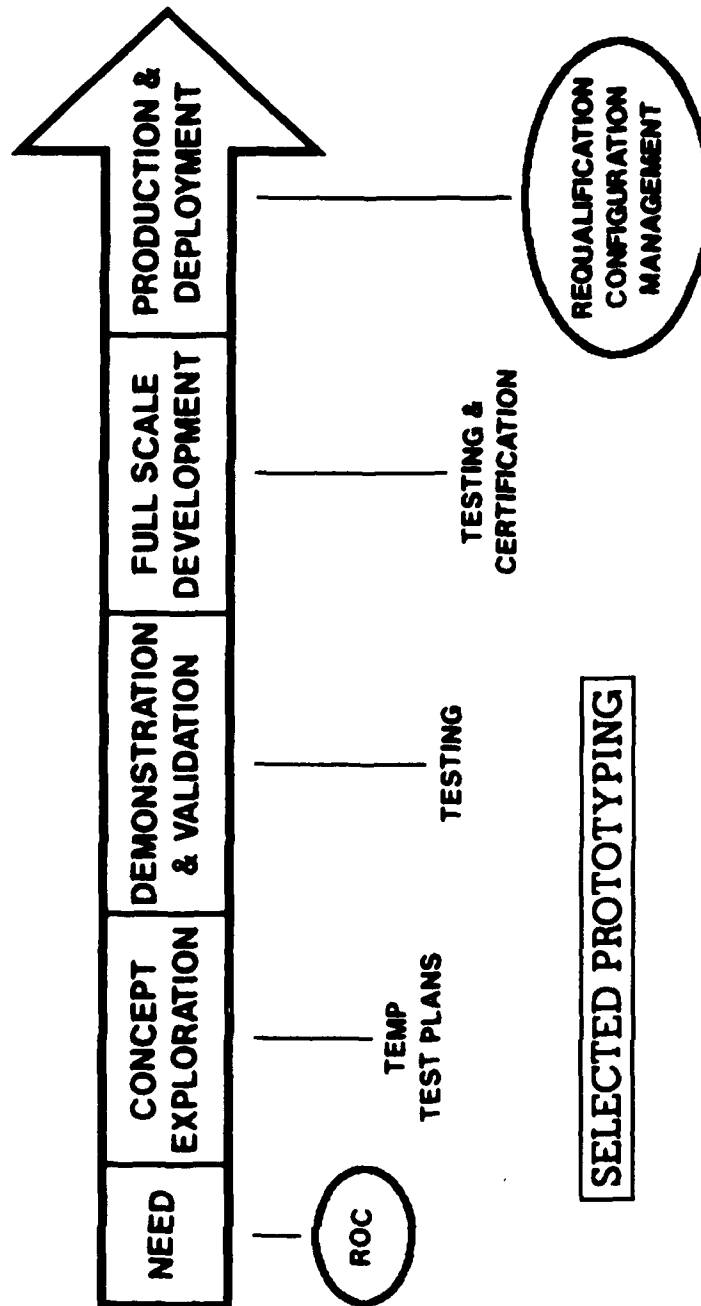
- **COMBINED**

- **INTEROPERABILITY IMPROVEMENT PROGRAM**

JINTACCS

- **MESSAGE TEXT FORMATS (MTFs)**
- **TACTICAL DIGITAL INFORMATION LINKS (TADILs)**
- **CONFIGURATION MANAGEMENT**
- **COMBINED INTEROPERABILITY MANAGEMENT
PLAN (CIMP)**

SYSTEM ACQUISITION PROCESS



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MISSION CHALLENGES

- OVERCOMING PAROCHIALISM - WILLINGNESS TO COMPROMISE
- SHORTENING THE STAFFING PROCESS FOR STANDARDS
- ACHIEVING TOTAL JOINT PROCEDURAL INTEROPERABILITY
- MAKING U.S. INTEROPERABILITY STANDARDS THE COMBINED STANDARDS
- OBTAINING FULL C/S/A COOPERATION IN:
 - SIMPLIFYING ARCHITECTURE DEVELOPMENT
 - PROVIDING TEST AND EVALUATION MASTER PLANS (TEMPS) AND REQUIRED OPERATIONAL CAPABILITIES (ROCs) TO REVIEW
 - PROVIDING INTERFACES TO BE CERTIFIED
 - INCORPORATING STANDARDS EARLY IN THE DEVELOPING PROCESS

056-17-FEB 88-RC

SUMMARY

JTC3A:

- DEVELOPS ARCHITECTURES
- DEVELOPS AND REVIEWS STANDARDS
- DOES TECHNOLOGY ASSESSMENTS
- CONDUCTS TESTING
- REVIEWS C/S/A REQUIREMENTS, FIELDING PLANS, ETC

**TO HELP ENSURE JOINT/COMBINED INTEROPERABILITY
OF TACTICAL C3 SYSTEMS THAT ARE:**

- IN BEING
- IN DEVELOPMENT

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-87-D-C009	JTC3A HQ & NCR SETA	BDM CORP	13.112K	SEP 88 - AUG 88
	● C3 ARCHITECTURES		7.339K	<u>1ST OPTION</u> SEP 89 - AUG 90
	- CINC			
	- MISSION			
	● TECH ASSESSMENTS		7.573K	<u>2ND OPTION</u> SEP 90 - AUG 91
	- MSE			
	- FIBER OPTICS			
	- SWITCHING			
	● C2 SYSTEMS		7.834K	<u>3RD OPTION</u> SEP 91 - AUG 92
	- MESSAGE TEXT FORMATS			
	- JOINT USERS HANDBOOK			
	- CENTRAL DATA BASE SYSTEM			
	● INTEROPERABILITY ASSURANCE			
	- STANDARDS DEVELOPMENT			
				TO BE RECOMPETED - ANTICIPATED ANNOUNCEMENT DATE DEC 91

056-19-FEB 88-RC

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-87-C-C282	DESIGN, DEVELOP TEST, INSTALL, SUPPORT AND MAINTAIN THE JOINT INTEROPERABILITY EVALUATION SYSTEM (JIES)	MARTIN MARIETTA, INC.	\$51,582K (33,843K)	<u>PHASE I</u> JUL 87 - FEB 90
			(5,740K)	<u>PHASE II</u> MAR 90 - FEB 91
			(3,936K)	<u>PHASE III</u> MAR 91 - FEB 92
			(8,063K)	INTERMEDIATE PROCESSOR OPTION

056-21-FEB 88-RC

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-87-C-C300	JIES INDEPENDENT VERIFICATION & VALIDATION AND JITF TECHNICAL/ PROGRAM SUPPORT	INTERMETRICS, INC.	9,091K	SEP 87 - SEP 90 (BASIC)
			5,115K	SEP 90 - SEP 92 (OPTION)

TO BE RECOMPETED AS
PART OF JTC SETA FOLLOW-ON

056-22-FEB 88-RC

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-88-C-C231	JOINT INTERFACE TEST SYSTEM (JITS) MAINTENANCE. PROCEDURAL INTERFACE STANDARDS CONFIGURATION MANAGEMENT (CM) AND JOINT INTERFACE TEST FORCE (JITF) FACILITIES OPERATIONS SUPPORT	NATIONS, INC.	6,293K	DEC 87 - DEC 89 (BASIC)
			2,404K	DEC 89 - DEC 90 (OPTION YR 1)
			2,481K	DEC 90 - DEC 91 (OPTION YR 2)
				TO BE RECOMPETED AS PART OF JTC O&M FOLLOW-ON

056-23-FEB 88-RC

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

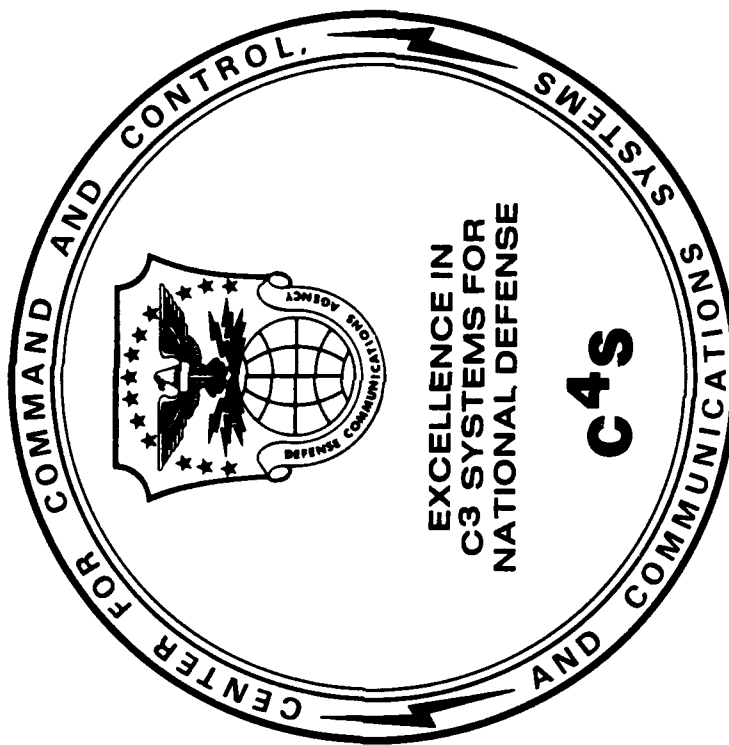
<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAEA18-88-D-0010	JTE O&M	MANTECH	267K	JAN 88 - MAR 88
	● TESTING FACILITY SUPPORT		3,000K	<u>1ST OPTION</u> MAR 88 - MAR 89
	- OPERATE, MAINTAIN, AND REPAIR NETWORK COMMUNICATIONS SYSTEMS			
	- OPERATE, MAINTAIN, AND REPAIR SPECIAL TEST INSTRUMENTATION (ATI)		2,900K	<u>2ND OPTION</u> MAR 89 - MAR 90
	- OPERATE, MAINTAIN, AND REPAIR TESTBED COMMUNICATIONS SYSTEMS		2,800K	<u>3RD OPTION</u> MAR 90 - MAR 91
	● ADP SUPPORT			
	- OT&E SOFTWARE DEVELOPMENT ON DBMS AND NETWORK OPERATIONS		2,800K	<u>4TH OPTION</u> MAR 91 - MAR 92
	- MAINTAIN AND REPAIR MICROS			
	- ENTRY AND RETRIEVAL OF DATA			
	● EXERCISE SUPPORT			
	- PUBLISH LESSONS LEARNED REPORT			
	- PUBLISH JOINT COMMUNICATIONS PROCEDURES			
	- KEY MANAGEMENT & COMSEC ISSUES			
	● TESTING SUPPORT			
	- WRITE TEST DOCUMENTATION			
				TO BE RECOMPETED - ANTICIPATED ANNOUNCEMENT DATE AUG 91

056-24R-FEB 88-RC

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DEA 18-83-C-0048	JOINT TEST ELEMENT SETA	MERDAN CORP.	2.500K	JUN 83 - JUL 88
	<ul style="list-style-type: none"> ● TESTING SUPPORT <ul style="list-style-type: none"> - DEVELOPING PLANS AND PROCEDURES - ASSISTING IN EXECUTION - ANALYSIS OF FUTURE TEST REQUIREMENTS ● TEST DATA MANAGEMENT <ul style="list-style-type: none"> - AUTOMATED TEST DATA REPOSITORY - DEVELOP DATA COLLECTION PROCEDURES ● PLANNING AND STUDIES <ul style="list-style-type: none"> - INTEGRATED LOGISTIC SUPPORT 			TO BE RECOMPETED - ANTICIPATED ANNOUNCEMENT DATE FEB 88

056-25-FEB 88-RC



#053-A-CV

OUTLINE

- ORGANIZATION
- RESOURCES
- PROGRAM HIGHLIGHTS
- FUTURE CHALLENGES

THE ORGANIZATIONAL EVOLUTION OF C4S

PLANNING		ENGINEERING
1962		NMCS SYSTEM ENGINEER
1970		MEECN SYSTEM ENGINEER
1971	DCS ARCHITECTURE	
1973	MILSATCOM SYSTEMS ARCHITECTURE	
1975	WWMCCS SYSTEMS ENGINEER	
1979		STRATEGIC CONNECTIVITY PROGRAM
1981	PLANNING AND SYSTEM INTEGRATION	
1983		COMMAND AND CONTROL SYSTEM ORGANIZATION
1985		CREATION OF C4S

#053-A-CV

THE C4S MISSION

- **PROVIDE PLANNING, SYSTEM ENGINEERING, AND TEST/EVALUATION SUPPORT TO OSD, JCS, AND CINC'S FOR MAJOR C3 SYSTEMS INCLUDING:**
 - **NATIONAL MILITARY COMMAND SYSTEM**
 - **C3 SYSTEMS FOR STRATEGIC NUCLEAR FORCES**
 - **C3 SYSTEMS OF THE CINC'S**
 - **DEFENSE-WIDE C3 SYSTEMS**
- **PROVIDE TECHNICAL AND MANAGEMENT ADVICE REGARDING INTEGRATION OF THESE SYSTEMS INTO THE WORLDWIDE MILITARY C2 SYSTEM**

#053-A-CV

OBJECTIVES

- **BECOME A LEADER IN ORCHESTRATING THE EVOLUTION OF AN INTEGRATED C3 SYSTEM**
 - **CONSISTENT WITH NATIONAL POLICY**
 - **SUPPORTS COMBAT FORCES**
 - **REFLECTS REALISTIC BUDGET CONSTRAINTS**
- **BECOME A CENTER OF EXCELLENCE IN C3 SYSTEMS**
 - **QUANTITATIVE METHODS**
 - **INNOVATIVE CONCEPTS**
 - **LEADING EDGE TECHNOLOGY**

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AREAS OF PRIMARY INTEREST

DOD C3 PROGRAM

**STRATEGIC
SYSTEMS**

**THEATER
SYSTEMS**

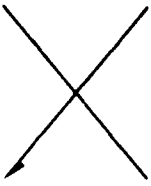
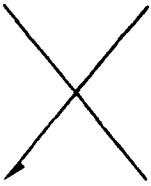
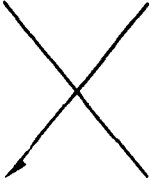
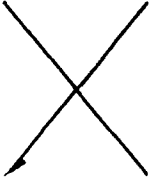
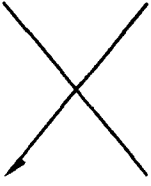
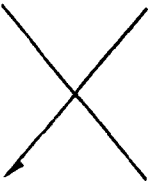
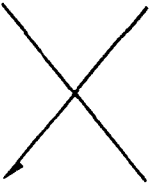
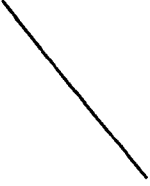
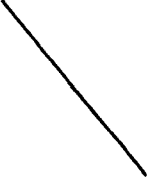
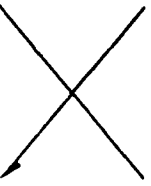
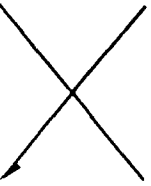
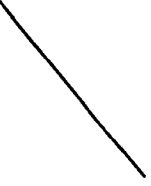
COMMAND CENTER SYSTEMS

SATELLITE COMM SYSTEMS

DEFENSE COMM SYSTEM


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SCOPE OF ACTIVITIES

	CMD CTR	STRAT	THEATER	SAT COM	DCS
PLAN/ARCH					
ENG/ ADV DEV					
TEST/EVAL					

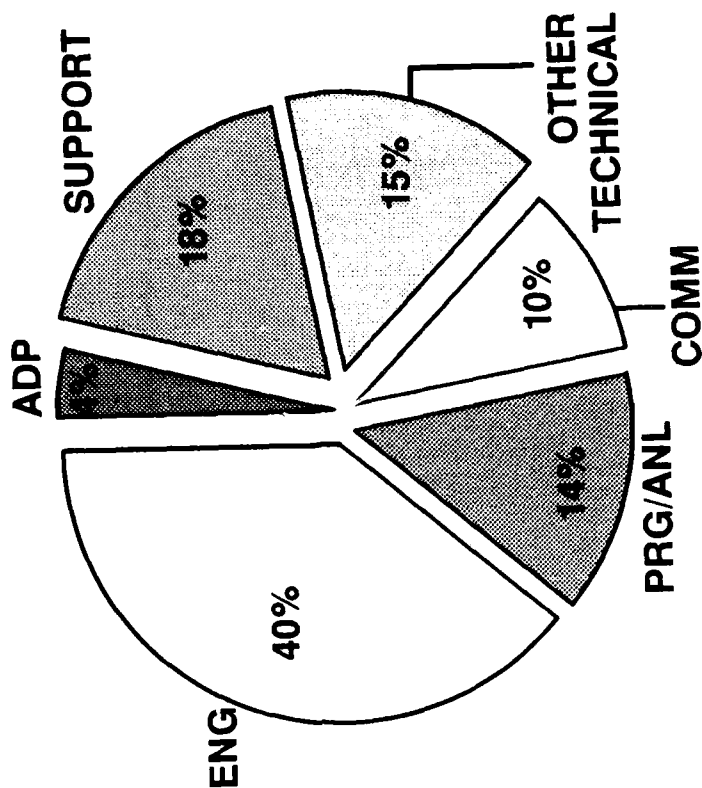
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OUTLINE

- ORGANIZATION
-  RESOURCES
- PROGRAM HIGHLIGHTS
- FUTURE CHALLENGES

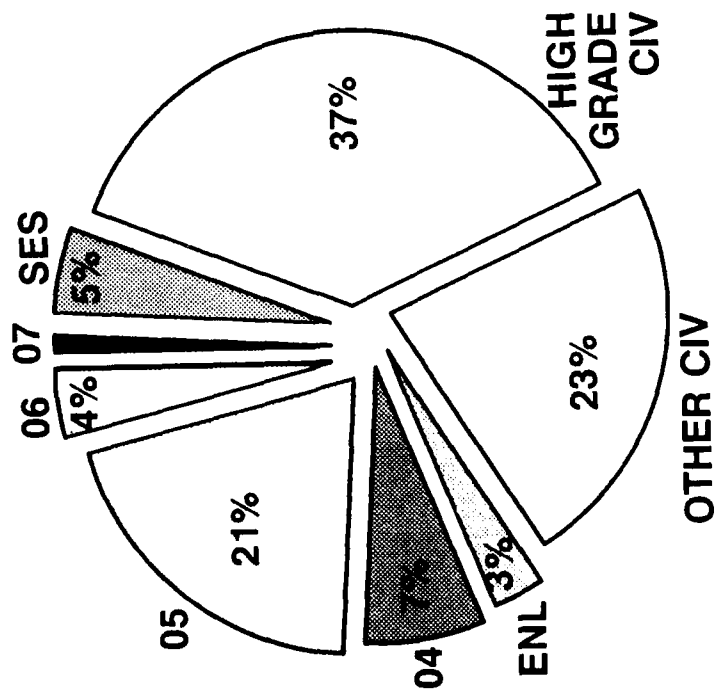
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STAFF DISTRIBUTION



BY SKILL

#053-A-CV



BY GRADE

TRENDS IN THE C4S GOALS

1985

FORMATION OF A COHERENT
STRATEGIC CONNECTIVITY
IMPROVEMENT PROGRAM

REVITALIZATION OF NMCS
ENGINEERING PROGRAM

DEVELOPMENT OF AN
INTEGRATED PROGRAM OF C3
SUPPORT FOR EUROPE AND
PACIFIC

DEVELOPMENT OF A COORDINATED
PROGRAM OF DEFENSE-WIDE
ARCHITECTURE AND PLANNING TO
SUPPORT INVESTMENT DECISIONS

1988

EXTEND TO NON-STRATEGIC
NUCLEAR FORCES AND STRATEGIC
DEFENSE

EXPAND CINC COMMAND CENTER
PROGRAM AND EXTEND TO
NATIONAL LEVEL

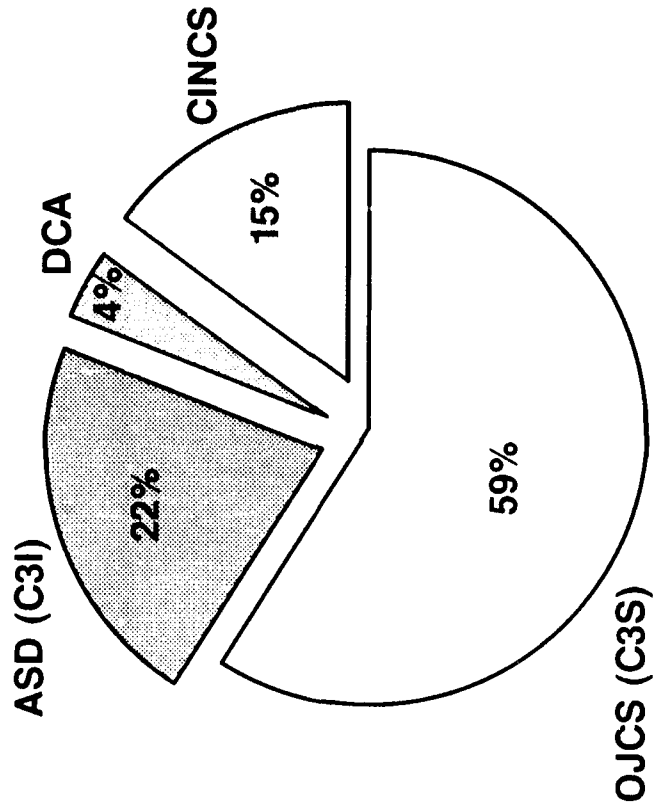
EXTEND TO OTHER CINCS,
E.G., CENTCOM, SOUTHCOM, AND
TRANSCom

REFINE LEVEL OF DETAIL
TO FACILITATE INTEGRATION OF
INFORMATION SYSTEMS

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DISTRIBUTION OF C4S CONTRACTUAL SUPPORT EFFORT

(BY CUSTOMER)

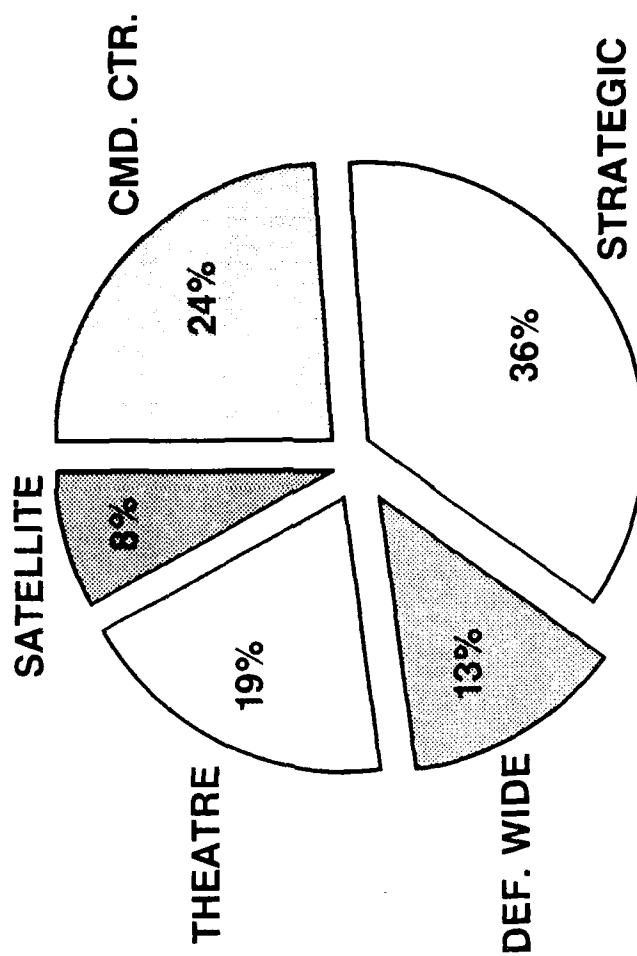


TOTAL FY88 FUNDS \$39 M

#053-A-CV

DISTRIBUTION OF C4S CONTRACTUAL SUPPORT EFFORT

(BY FUNCTION AREA)



TOTAL FY88 FUNDS \$39 M

#053-A-CV

SOME MANAGEMENT ACCOMPLISHMENTS

- **STREAMLINING OF HIRING PROCESS**
- **RECRUITING CAMPAIGN TO REDUCE VACANCY RATE**
- **RESTRUCTURING OF CONTRACT PROCEDURES/RESPONSIBILITIES**
- **STRENGTHENING OF PROPOSAL EVALUATION PROCESS**
- **15 COMPETITIVE ACTIONS PROCESSED IN 1986/1987**
- **DEVELOPMENT OF STRUCTURED PROCESS FOR PROJECT REVIEW**
- **MECHANISMS FOR COORDINATION/INTEGRATION OF ACTIVITIES**
- **RESTRUCTURING OF PROGRAM**

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C4S MAJOR CONTRACTUAL EFFORTS

	APR 88	MAY 88	JUN 88	JUL 88	AUG 88	SEP 88	OCT 88	NOV 88	DEC 88	JAN 89	FEB 89	MAR 89	APR 89	MAY 89	JUN 89	JUL 89	AUG 89	SEP 89	OCT 89	NOV 89	DEC 89	JAN 90	FEB 90	APR 90
COMMAND CENTER SYSTEMS																								
ABNCP TECH SPT																								
86-C-0082																								
CMD CTR IST&E																								
86-C-0112																								
CMD CTR SETA																								
86-C-0111																								
CMD CTR SETA																								
87-C-0144																								
NMCS BASELINE SPT																								
86-C-0114																								
FIXED CMD CTR SPT																								
87-C-0038																								
ABNCP T&E SPT																								
87-C-0067																								
STRATEGIC SYSTEMS																								
STRATEGIC C3 OPNT&E																								
87-C-0030																								
STRATEGIC C3 SPT																								
87-C-0033																								
C3 ARCH STRAT OPNS																								
87-R-0159																								
MILITARY SATELLITE COMMUNICATIONS																								
MILSATCOM SETA																								
87-C-0024																								
DEFENSE-WIDE SYSTEMS																								
C4S EUROPE T&E SPT																								
87-C-0077																								
GLOBAL ASSESS																								
87-C-0079																								
DEFENSE-WIDE SETA																								
88-C-0022																								
THEATER ARCH SETA																								
87-R-0072																								

PERIOD OF PERFORMANCE/CURRENT CONTRACT TERM
RECOMPETE LEAD-TIME

#053-A-CV

OUTLINE

- ORGANIZATION
- RESOURCES
-  PROGRAM HIGHLIGHTS
- FUTURE CHALLENGES

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MAJOR PROGRAM ACCOMPLISHMENTS

- **REVITALIZATION OF NMCS ENGINEERING AND EXTENSION TO EXTENSION TO CINC'S COMMAND CENTER**
- **FORMATION OF A COHERENT STRATEGIC CONNECTIVITY IMPROVEMENT PROGRAM**
- **DEVELOPMENT OF AN INTEGRATED PROGRAM OF SUPPORT FOR EUROPE AND THE PACIFIC**
- **STRENGTHENING OF DEFENSE WIDE PLANNING ACTIVITIES**

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JCS SUPPORT: NMCS/CINC COMMAND CENTERS

REVITALIZATION OF NMCS ENGINEERING EXTENSION TO CINC COMMAND CENTERS

BEFORE

- LIMITED DESCRIPTION OF NMCS OBJECTIVE SYSTEM
- REACTIVE ENGINEERING FOR AD HOC PROJECTS
- UNCOORDINATED COMMAND CENTER UPGRADE PROGRAMS

NOW

- NMCS MP
- NMCS ENGINEERING PLANS
- TECH PROTOTYPING & DEMONSTRATION
- MODEL COMMAND CENTER
- DESIGN HANDBOOK
- TIGER TEAMS
- INFORMATION EXCHANGE

IMPACT

- BASIS FOR NMCS BUDGET ISSUES
- SYSTEMATIC INTEGRATION OF 50 NMCS IMPROVEMENT PROGRAMS
- ORCHESTRATION OF 20 DoD COMMAND CENTER UPGRADES

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JCS SUPPORT: STRATEGIC CONNECTIVITY

FORMATION OF A COHERENT STRATEGIC CONNECTIVITY IMPROVEMENT PROGRAM

BEFORE	NOW	IMPACT
<ul style="list-style-type: none"> • COM PROCEDURES FOCUSED ON EAM 	<ul style="list-style-type: none"> • EXPANSION TO FORCE MANAGEMENT 	<ul style="list-style-type: none"> • OPTIMIZE CURRENT CAPABILITY <ul style="list-style-type: none"> - EAM - FM - TWAA - CONF
<ul style="list-style-type: none"> • A FEW BIG TESTS 	<ul style="list-style-type: none"> • RESTRUCTURED MULTILEVEL T&E PROGRAM 	<ul style="list-style-type: none"> • REALIZE FULL POTENTIAL OF PROGRAMMED IMPROVEMENTS
<ul style="list-style-type: none"> • CHRONIC COM PROBLEMS • AD HOC ENGINEERING 	<ul style="list-style-type: none"> • DIAGNOSTIC PROGRAM • END-TO-END SYSTEM ENGINEERING STUDIES • STRATEGIC CONNECTIVITY ENGINEERING PLAN 	<ul style="list-style-type: none"> • QUANTITATIVE AND OPERATIONAL SUPPORT FOR BUDGET ISSUES
<ul style="list-style-type: none"> • SAND BOX DEVELOPMENT 	<ul style="list-style-type: none"> • STANDARDS DEVELOPMENT • TRANSITION TO SERVICES 	
<ul style="list-style-type: none"> • FEW QUANT MEAS FOR PLANNING 	<ul style="list-style-type: none"> • STRATEGIC CONNECTIVITY MASTER PLAN 	

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THEATER CINC SUPPORT

DEVELOPMENT OF AN INTEGRATED AND FORWARD-LOOKING
PROGRAM OF SUPPORT FOR EUROPE AND THE PACIFIC

BEFORE

- FIELD OFFICES POORLY COORDINATED
- NSNF C3 SYSTEM ENGR LIMITED
- NO MECHANISM FOR EVAL OF COMM SYSTEM
- NO STRATEGY FOR RATIONALIZATION
- WEAK COUPLING WITH INTELL
- NATO PLANNING VERY WEAK

NOW

- C4S-EUR FORMED
- NSNF C3 ENG/PLAN REVITALIZED
- THEATER COMM ARCHITECTURE
- EMERGING PROG FOR RATIONALIZATION
- ESTABLISHED INTELL INTERFACE
- MOA PLANNING INITIATIVES

IMPACT

- EUCOM-NATO SYNERGY
- SURV CMD CTRs & IMPROVED CONNECTIVITY
- INTEGRATION OF COMM PROGRAMS INTO A WARTIME SYSTEM
- INTEGRATED C3I VIEW
- CINC's USE OF MOA FOR BUDGET

#053-A-CV

OSD/JCS/CINC SUPPORT: DEFENSE-WIDE C3 ARCHITECTURE AND PLANNING

DEVELOPMENT OF A COORDINATED PROGRAM OF ARCHITECTURE, PLANNING AND ANALYSIS TO ADDRESS C3 INVESTMENT, BUDGET AND PROGRAMMATIC ISSUES

BEFORE

- NUC WPNS MP
- NSNF C3 ARCH
- MILSATCOM
- WORLD WIDE DIGITAL SYS. ARCHITECTURE
- NATO C3
- INTERNATIONAL C3

NOW


- GLOBAL ASSESSMENT
- C3 ARCH & ACQ PLAN
- INTEGRATED MILSATCOM ARCHITECTURE
- DCS WEST HEM ARCHITECTURE
- TECHNOLOGY ASSESSMENT
- C3I INTEGRATION

IMPACT

- INVESTMENT STRATEGY CONSISTENT W/NAT POLICY
- INTEGRATED EVOLVING C3I SYSTEM
- BEST EXPENDITURE OF FUNDS

#053-A-CV

OUTLINE

- ORGANIZATION
- RESOURCES
- PROGRAM HIGHLIGHTS
-  FUTURE CHALLENGES

#053-A-CV

TRENDS IN THE C3 ENVIRONMENT

- **EVOLVING STRATEGY AND FORCE STRUCTURE**
- **PRIOR GROWTH IN THE C3 PROGRAM**
- **FUTURE LEVELING OFF OF C3 BUDGET**
- **INCREASED ROLE OF THE CINC'S**
- **EMPHASIS ON RAPID PROTOTYPING**
- **ACKNOWLEDGED NEED FOR SYSTEM INTEGRATOR**
- **DIMINISHING DCA/C4S RESOURCES**

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ISSUES/OPPORTUNITIES

- **IMPACT OF BUDGET CUTS ON PLANNED ARCHITECTURE**
- **DEGREE OF STANDARDIZATION OF INFORMATION SYSTEMS**
- **ROLE OF C4S IN RAPID PROTOTYPING AND EVALUATION**
- **LIMITATIONS IN C4S RESOURCES**
- **QUALITY OF CONTRACTOR ANALYTICAL SUPPORT**

#053-A-CV

SUMMARY

- **CENTER OF C3 EXPERTISE HAS BEEN CREATED**
- **COMPREHENSIVE PROGRAMS HAVE BEEN FORMULATED**
- **SIGNIFICANT CONTRIBUTIONS ARE BEING MADE**
 - **MODERNIZATION OF COMMAND CENTERS**
 - **IMPROVEMENT IN STRATEGIC CONNECTIVITY**
 - **INSTITUTIONALIZATION OF MISSION ORIENTED PLANNING**
- **CHANGES IN C3 ENVIRONMENT ARE CREATING ADDITIONAL DEMANDS AND OPPORTUNITIES**
- **ACTIVE INDUSTRY PARTICIPATION IS THE KEY TO SUCCESS**

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SOME NEW OR EMERGING EFFORTS

- **THE DCS ARCHITECTURE FOR THE 21ST CENTURY**
- **THE MILSATCOM ARCHITECTURE FOR THE 21ST CENTURY**
- **THE JCS C2 MASTER PLAN**
- **NMCS FUSION CENTER FOR FORCE LOCATION/DISPOSITION**
- **COMMAND CENTER MODULAR BUILDING CONCEPT**
- **THE TRANSCOM C3 ARCHITECTURE**
- **THE NATIONAL SECURITY INFORMATION & SITUATION
MANAGEMENT SYSTEM ARCHITECTURE**
- **NEW RAPID PROTOTYPING TEST AND EVALUATION ACTIVITIES**

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SELECTED C4S PROJECTS

ONGOING ACTIVITIES WHERE CONTACT MAY HELP

- **COMMAND CENTER IMPROVEMENT PROGRAM**
- **METEOR BURST COMMUNICATIONS**
- **MILSATCOM ARCHITECTURE**
- **21ST CENTURY DCS ARCHITECTURE**

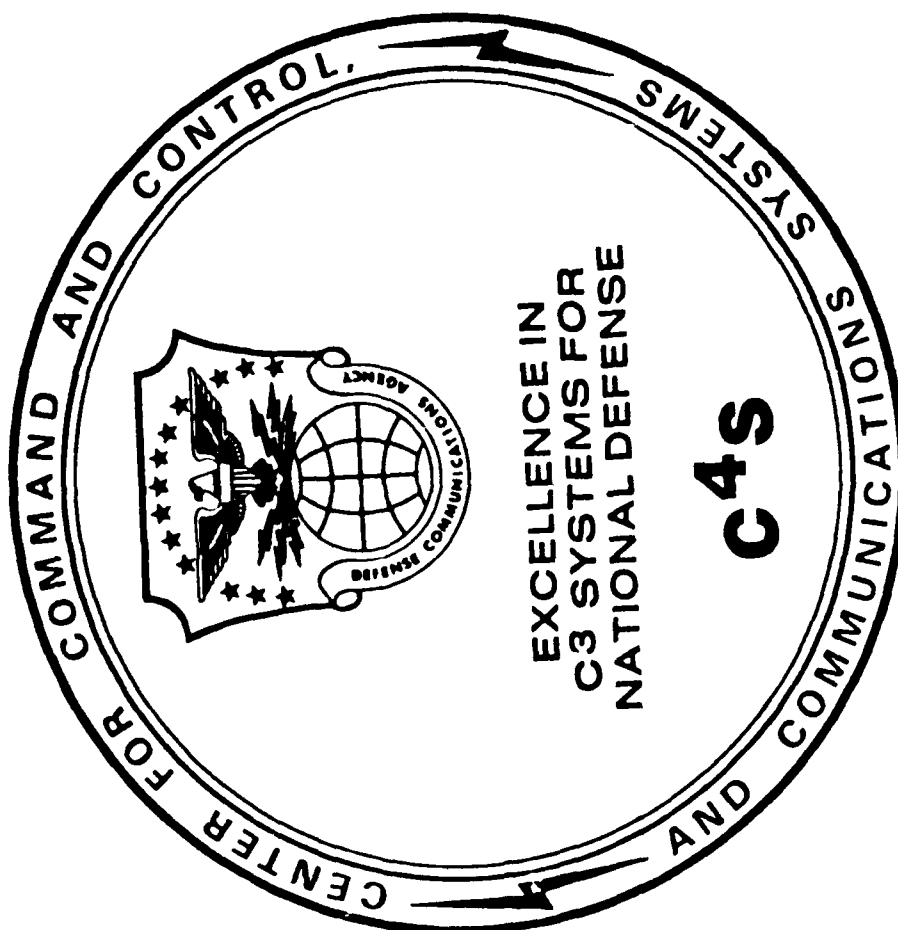
NEW PROCUREMENTS

- **USTRANSCOM C3 ARCHITECTURE**

AGENDA FOR TOMORROW

- **COMMAND CENTER IMPROVEMENT PROGRAM**
- **METEOR BURST COMMUNICATION STANDARDS**
- **MILSATCOM ARCHITECTURE FOR 21ST CENTURY**
- **DCS ARCHITECTURE FOR THE 21ST CENTURY**
- **USCINCTRANSCOM C3 ARCHITECTURE**

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APR 89 - APR 90

CENTER FOR C3 SYSTEMS
 STRATEGIC SYSTEMS DIRECTORATE
 MAJOR CONTRACTUAL EFFORTS
 (FUTURE)

DESCRIPTION	VALUE RANGE	ANTICIPATED	PERIOD
		ANNOUNCEMENT	OF PERFORMANCE
		DATE	
C3 ARCHITECTURE FOR STRATEGIC OPERATIONS	ABOVE \$5M	OCTOBER 1987	MAY 88 - MAY 91

- *ARCHITECTURAL STUDY SUPPORT
- *PROBLEMS IN C2 ARCHITECTURES
- *ANALYSIS OF C3 SYSTEMS SUPPORTING SSBN
- *CINC SUPPORT REQUIREMENTS

CENTER FOR C3 SYSTEMS
STRATEGIC SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-85-C-0148	<p>C3 ARCHITECTURE FOR STRATEGIC OPERATIONS - SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE</p> <p>* ANALYSIS, EVALUATION, AND INTEGRATION OF C3 FOR OFFENSIVE FORCES</p> <p>* ANALYSIS, EVALUATION, AND INTEGRATION OF C3 FOR DEFENSIVE FORCES</p> <p>* ANALYSIS, EVALUATION, AND INTEGRATION OF C3 TO SUPPORT NCA, JCS, AND THE CINCS</p> <p>* STRATEGIC C3 INTEGRATION AND PLANNING</p>	TITAN	\$ 1.95M	MAR 87 - JUL 88

CENTER FOR C3 SYSTEMS
STRATEGIC SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0030	TEST AND EVALUATION FOR STRATEGIC CONNECTIVITY	ELECTROSPACE SYSTEMS INC. (ESI)	\$ 3.26M	1ST YR OPTION DEC 87 - DEC 88
	* EVALUATE C3 SYSTEM PERFORMANCE IN OJCS OPERATIONAL EXERCISES			
	* CONDUCT FAULT ISOLATION/TECHNICAL TESTS		\$ 3.42M	2ND YR OPTION DEC 88 - DEC 89
	* PROVIDE AIRBORNE COMMAND POST TABLE TOP EXERCISE SUPPORT			
	* WARTIME INFORMATION FLOW ANALYSIS			

CENTER FOR C3 SYSTEMS
STRATEGIC SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0033	SYSTEM CONNECTIVITY SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE	SAIC	\$ 2.40M	BASE YEAR JAN 87 - JAN 88
			\$ 2.93M	1ST YR OPTION JAN 88 - JAN 89
			\$ 3.91M	2ND YR OPTION JAN 89 - JAN 90
	* QUANTITATIVE ASSESSMENTS AND ANALYSES OF STRATEGIC C3 CAPABILITIES			
	* SIMULATION AND MODELING SUPPORT FOR CONNECTIVITY EVALUATIONS			
	* ENGINEERING STUDIES AND ANALYSES FOR THE C3 REVIEW COUNCIL			
	* DEVELOP SYSTEM ENGINEERING PLANS			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0082	ABNCP ENGINEERING AND TECHNICAL SUPPORT	ESI	\$.6M	1ST YR OPTION AUG 87 - AUG 88
	* SECURE VOICE REPLACEMENT PROGRAM		\$.5M	2ND YR OPTION AUG 88 - AUG 89
	* KG-84 TRANSITION ENGINEERING AND TECHNICAL SUPPORT			
	* SUPER HIGH FREQUENCY GROUND ENTRY POINT ENGINEERING SPT			
	* ABNCP ENHANCEMENT PLANS			
	* WABNRES C3 SYSTEM HANDBOOK			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0111	COMMAND CENTER SYSTEMS RESEARCH AND DEVELOPMENT	BOOZ-ALLEN - HAMILTON	\$ 1.0M	1ST YEAR OPTION SEP 87 - SEP 88
	* NMCS WARNING PROGRAMS		\$ 1.0M	2ND YEAR OPTION SEP 88 - SEP 89
	* NMCS WARNING SYSTEMS			
	* NMCS WARNING INFORMATION REQUIREMENTS			
	* NMCS STRATEGIC INFORMATION SYSTEMS ENGINEERING AND DEVELOPMENT			
	* COMMAND CENTER IMPROVEMENT PROGRAM: INFORMATION RESOURCES			
	* COMMAND CENTER IMPROVEMENT PROGRAM: MODEL COMMAND CENTER			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0112	COMMAND CENTER SYSTEMS TEST AND EVALUATION	ESI	\$.7M	1ST YEAR OPTION SEP 87 - SEP 88
	* NMCS WARNING INFORMATION SYSTEMS		\$.7M	2ND YEAR OPTION SEP 88 - SEP 89
	* NMCS STRATEGIC INFORMATION SYSTEMS			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0114	NMCS BASELINE SUPPORT	RMS	\$.3M	1ST YEAR OPTION OCT 87 - OCT 88
	* IDENTIFICATION AND ANALYSIS OF IMPROVEMENTS TO THE NMCS		\$.3M	2ND YEAR OPTION OCT 88 - OCT 89

- * ANNUAL UPDATE OF THE NMCS
"SUMMARY OF CURRENT
IMPROVEMENTS"

CENTER FOR C3 SYSTEMS
 COMMAND CENTER SYSTEMS DIRECTORATE
 CONTRACUAL EFFORTS
 (CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0144	COMMAND CENTER SYSTEMS SETA OPERATIONS AND MAINTENANCE	BOOZ-ALLEN - HAMILTON	\$.9M	1ST YEAR OPTION SEP 87 - SEP 88
	* CRISIS COORDINATION CENTER SUPPORT		\$.8M	2ND YEAR OPTION SEP 88 - SEP 89
	* NMCC SUPPORT			
	* ANMCC SUPPORT			
	* NATIONAL INTELLIGENCE CENTER SUPPORT			
	* COMMAND CENTER IMPROVEMENT PROGRAM: FIELD ENGINEERING			

CENTER FOR C3 SYSTEMS
 COMMAND CENTER SYSTEMS DIRECTORATE
 CONTRACTUAL EFFORTS
 (CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0038	NMCS/WMCCS SUPPORT OPERATIONS AND MAINTENANCE	BAH	\$ 1.0M	BASE YEAR APR 87 - APR 88
*	NMCC CONFIGURATION MGMT CONTROL CAPABILITY DEVELOPMENT		\$.7M	1ST YR OPTION APR 88 - APR 89
*	NMCC UPGRADE AND MODERNIZATION		\$.8M	2ND YR OPTION APR 89 - APR 90
*	ANMCC HEMP HVA1 MGMT ENGINEERING PLAN			
*	ANMCC/SITE R POWER SYSTEMS MGMT PLAN			
*	NMCS COMMAND CENTER ENGINEERING SUPPORT			
*	U&S COMMAND WMCCS FIELD ENGINEERING SUPPORT			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0067	ABNCP ENGINEERING AND TECHNICAL SUPPORT	ESI	\$.7M	BASE YEAR APR 87 - APR 88
	* NEACP MODERNIZATION		\$.8M	1ST YEAR OPTION APR 88 - APR 89
	- VOICE SYSTEMS INTEGRATION/ SWITCHING			
	- TRSC/SCP CONNECTIVITY			
	- NEACP COMMUNICATIONS SYSTEMS INTERGRATION STUDY		\$.7M	2ND YEAR OPTION APR 89 - APR 90
	* WWABNCP MODERNIZATION			
	- EC-135C COMMUNICATIONS SYSTEMS INTEGRATION STUDY			
	- SAC ADP QOT&E PLAN			
	- WWABNCP/AF-1 COMMUNICATIONS SYSTEMS INTEGRATION STUDY			
	* SPECIAL AIR MISSION MODERNIZATION			
	- AF-1 COMMUNICATIONS INTEGRATION STUDY			

AD-A195 551

AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS
ASSOCIATION) SYMPOSIUM (2ND...) DEFENSE COMMUNICATIONS
AGENCY ARLINGTON VA APR 88

3/5

UNCLASSIFIED

F/G 25/3

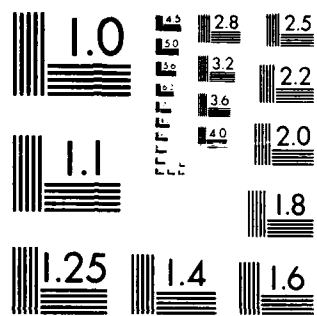
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CENTER FOR C3 SYSTEMS
DEFENSE WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(FUTURE)

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
TECHNICAL SUPPORT FOR SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE	ABOVE \$3M	MAY 1990	DEC 90 - DEC 93

*LONG RANGE COMMUNICATIONS
ARCHITECTURE AND PLANNING

*DEFENSE-WIDE C2 ARCHITECTURE

CENTER FOR C3 SYSTEMS
DEFENSE-WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-83-C-0036	SYSTEMS ENGINEERING & TECHNICAL ASSISTANCE (SETA)	BOOZ-ALLEN & HAMILTON	\$14.8M	DEC 86 - DEC 87
	* USEUCOM TCA			
	* US/NATO ALLIED TECHNICAL SUPPORT FOR ASD (C3I)			
	* USPACOM THEATER C3 ARCHITECTURE			

CENTER FOR C3 SYSTEMS
DEFENSE WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0077	DCA/C4S EUROPE ON SITE SUPPORT	TIHAN	.8M	BASE YEAR APR 87 - APR 88
	* USCINC EUROPE C2 MASTER PLAN		\$.6M	1ST YR OPTION APR 88 - APR 89
	* USEUCOM LONG-TERM ADP PLANNING			
	* USEUCOM LOGISTICS C2 ANALYSES		\$.6M	2ND YR OPTION APR 89 - APR 90

CENTER FOR C3 SYSTEMS
DEFENSE WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0079	GLOBAL ASSESSMENT SUPPORT	SPC	\$ 1.1M	BASE YEAR JUL 87 - JUN 88
	* C2 GLOBAL ASSESSMENT SUPPORT		\$.7M	1ST YR OPTION JUL 88 - JUN 89
	* EW MISSION AREA ANALYSIS		\$.9M	2ND YR OPTION JUL 89 - JUN 90
	* SOUTHCOM C2 MASTER PLAN			
	* C2 MODELING			
	* DEVELOPMENT OF THE JOINT DECISION SUPPORT SYSTEM			

CENTER FOR C3 SYSTEMS
 DEFENSE-WIDE SYSTEMS DIRECTORATE
 MAJOR CONTRACTUAL EFFORTS
 (CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0083	WARTIME HEADQUARTERS EFFEC- TIVENESS ANALYSIS (HEAT) * THEORY OF HEAT * MEASUREMENT TOOL * FRAMEWORK FOR GENERALIZING TEST RESULTS * HEAT ISSUES * DESIGN GUIDELINES FOR HEAD QUARTERS	ALPHATECH	\$ 2.5M	JUL 87 - JUL 90

CENTER FOR C3 SYSTEMS
DEFENSE-WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-88-C-0022	TECHNICAL SUPPORT FOR SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE	BOOZ-ALLEN-HAMILTON	\$ 1.6M	BASE YEAR DEC 87 - DEC 88
	* LONG RANGE COMMUNICATIONS ARCHITECTURE & PLANNING		\$ 1.0M	1ST YR OPTION DEC 88 - DEC 89
	* DEVELOPMENTAL ENGINEERING		\$.9M	2ND YR OPTION DEC 89 - DEC 90
	* DEFENSE-WIDE C2 ARCHITECTURE			

CENTER FOR C3 SYSTEMS
DEFENSE WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-88-C-0000	SYSTEMS ENGINEERING & TECHNICAL ASSISTANCE SUPPORT		\$ 3.0M	BASE YEAR JAN 88 - DEC 88
	* USEUCOM THEATER COMMUNICATIONS ARCHITECTURE		\$ 3.8M	1ST YR OPTION JAN 89 - DEC 89
	* USPACOM THEATER C3 ARCHITECTURE		\$ 2.9M	2ND YEAR OPTION JAN 90 - DEC 90
	* TECHNICAL SUPPORT TO ASD(C3I) JCS/MCEB ON US/NATO/ALLIED C3			
	* WORLDWIDE NSNF C3 ARCHITECTURE			

CENTER FOR C3 SYSTEMS
MILITARY SATELLITE COMMAND SYSTEMS
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0024	MILSATCOM SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE	M/A-COM	\$ 2.0M	1ST YEAR OPTION DEC 87 - DEC 88
*	MILSATCOM SYSTEMS ARCHITECTURE ENHANCEMENTS/ALTERNATIVES		\$ 2.0M	2ND YEAR OPTION DEC 88 - DEC 89
*	PHYSICAL & ELECTRONIC SURVIVABILITY OF SATCOM SYSTEMS			
*	NATO SATELLITE COMMUNICATIONS COMMITTEE TECHNICAL SUPPORT			
*	ADVANCED MILSATCOM TECHNOLOGY			
*	COMMERCIAL SATCOM INTER-OPERABILITY			
*	DSCS III-C ANALYSIS			

**OVERVIEW OF
DECCO
DEFENSE COMMERCIAL
COMMUNICATIONS OFFICE
SCOTT AFB, IL**

**PRESENTER:
J. W. PENNY, COL. USAF
COMMANDER
DECCO**

OVERVIEW

- **MISSION/ORGANIZATIONAL STRUCTURE**
- **MAJOR CUSTOMER/REQUIREMENTS FLOW**
- **TYPES OF SERVICE**
- **MAJOR POLICIES/PROCEDURES**
- **CONTRACT METHODS/MEDIA**
- **IMPACTS/CHALLENGES**

DECCO BACKGROUND

- **CENTRAL LEASING ACTIVITY**
- **RESPONSIBLE FOR PRIVATE LINE CIRCUITS, FACILITIES AND EQUIPMENT**
- **ANNUAL EXPENDITURES OF OVER \$1.2 BILLION**
- **APPROXIMATELY 91,000 CSAs**
- **20 MILLION MILES OF CIRCUITRY**
- **REQUIREMENTS - AVERAGE PER MONTH**
 - 600 STARTS
 - 470 DISCONNECTS
 - 450+ CHANGES

METHODS OF SOLICITATION MUST CHANGE WITH ENVIRONMENT

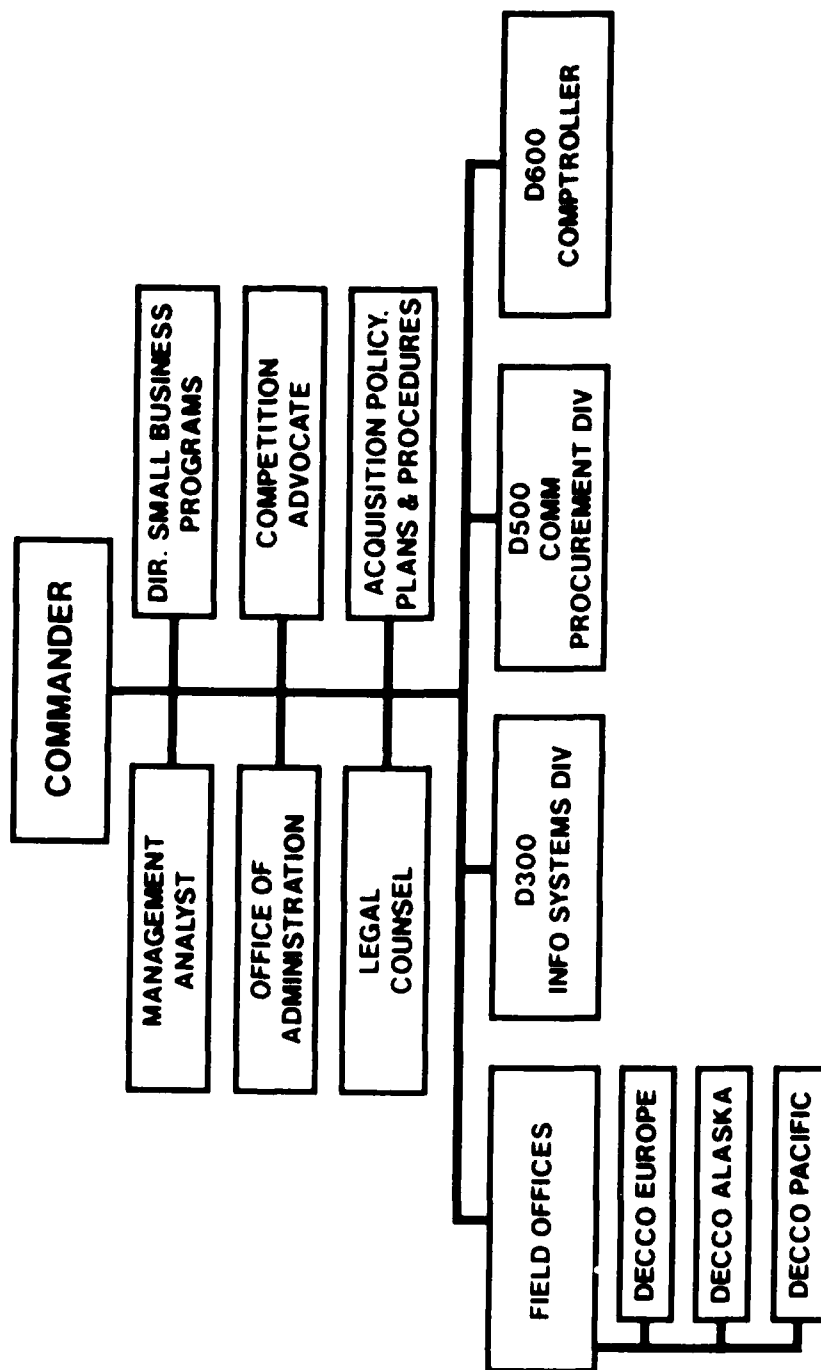
● HISTORICALLY:

- LIMITED COMPETITION (BELL SYSTEM AND WESTERN UNION)**
- BASIC AGREEMENTS WITH BOTH COMPANIES**
- MOST SERVICES TARIFFED**
- SINGLE CSA/END-TO-END MANAGEMENT**

● TODAY: (AS A RESULT OF C II/DIVESTITURE/DEREGULATION)

- MANY PROVIDERS OF SERVICES**
- MUCH SERVICE UNREGULATED/NON-TARIFFED**
- TECHNOLOGY PROVIDES MANY ALTERNATIVE SOLUTIONS**
- END-TO-END MANAGEMENT DIFFICULT/COSTLY**
- CICA REQUIRES FAOC**
- MANY PROVIDERS DO NOT HAVE BASIC AGREEMENTS**

DECCO ORGANIZATIONAL STRUCTURE

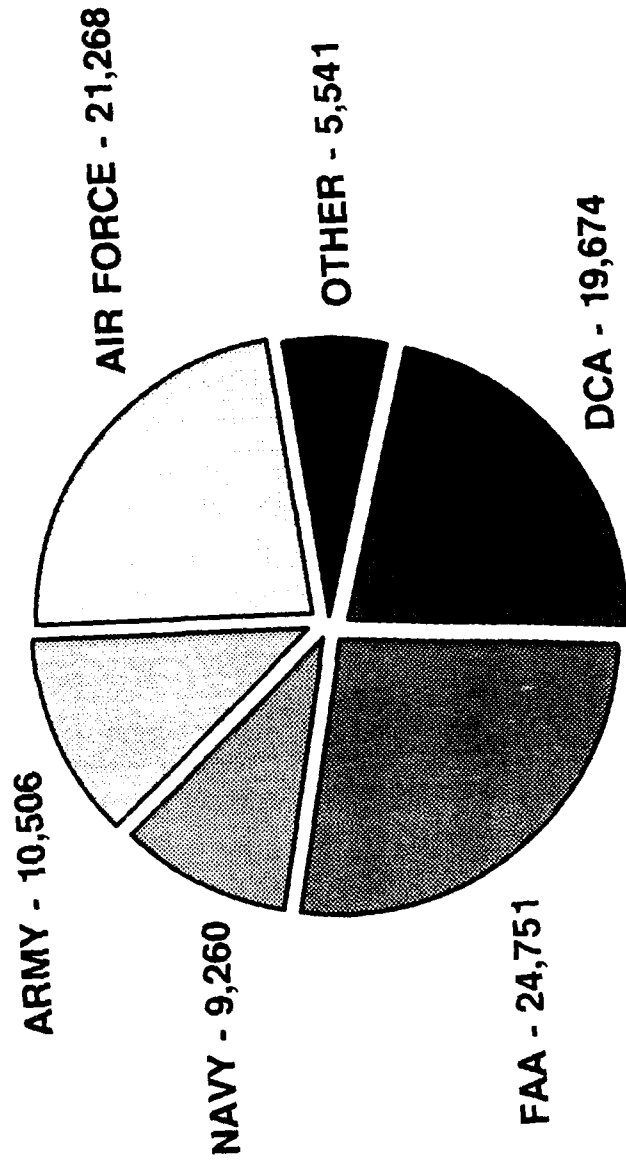


MAJOR CUSTOMERS

	PERCENT
USAF (HQ AFCC, SCOTT AFB)	35.6%
FAA (HQ FAA/NINE REGIONS)	18.5%
US ARMY (ARRCO, FT. HUACHUCA, AZ)	15.8%
US NAVY (COMNAVTELCOM, WASHINGTON, DC)	13.1%
DCA	2.2%
OTHERS	14.8%
	<hr/>
	100%

DEFENSE COMMERCIAL COMMUNICATIONS OFFICE CONTRACT DISTRIBUTION

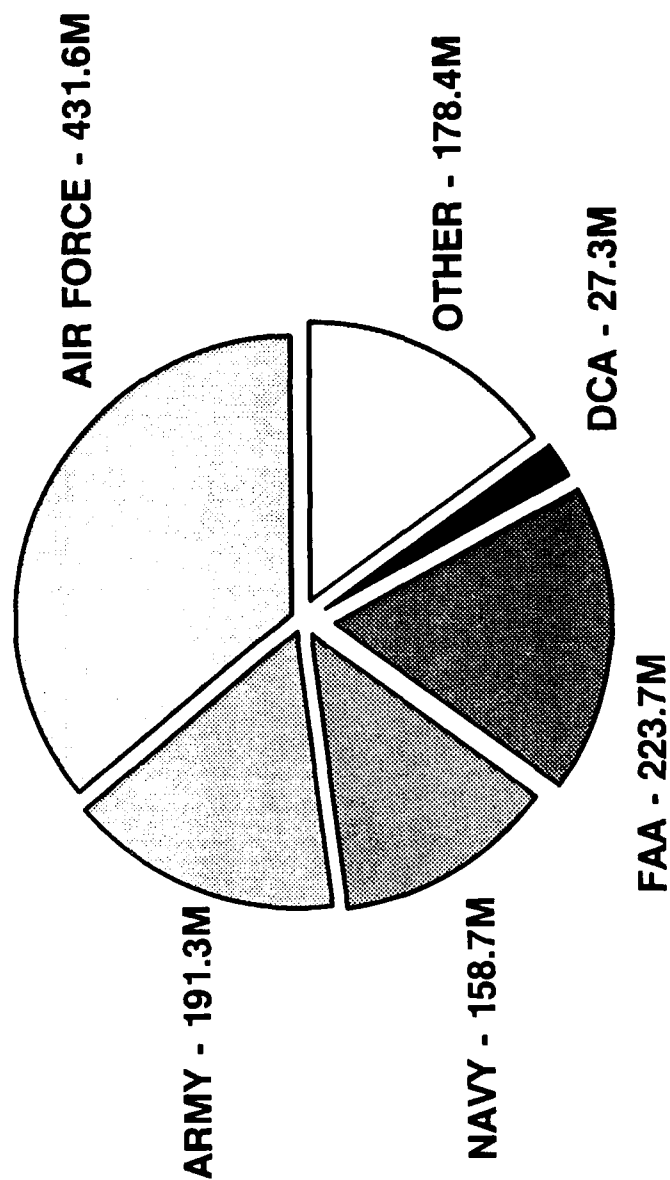
(91,000 CONTRACTS)



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DEFENSE COMMERCIAL COMMUNICATIONS OFFICE CUSTOMER OBLIGATIONS

(\$1.2 BILLION)

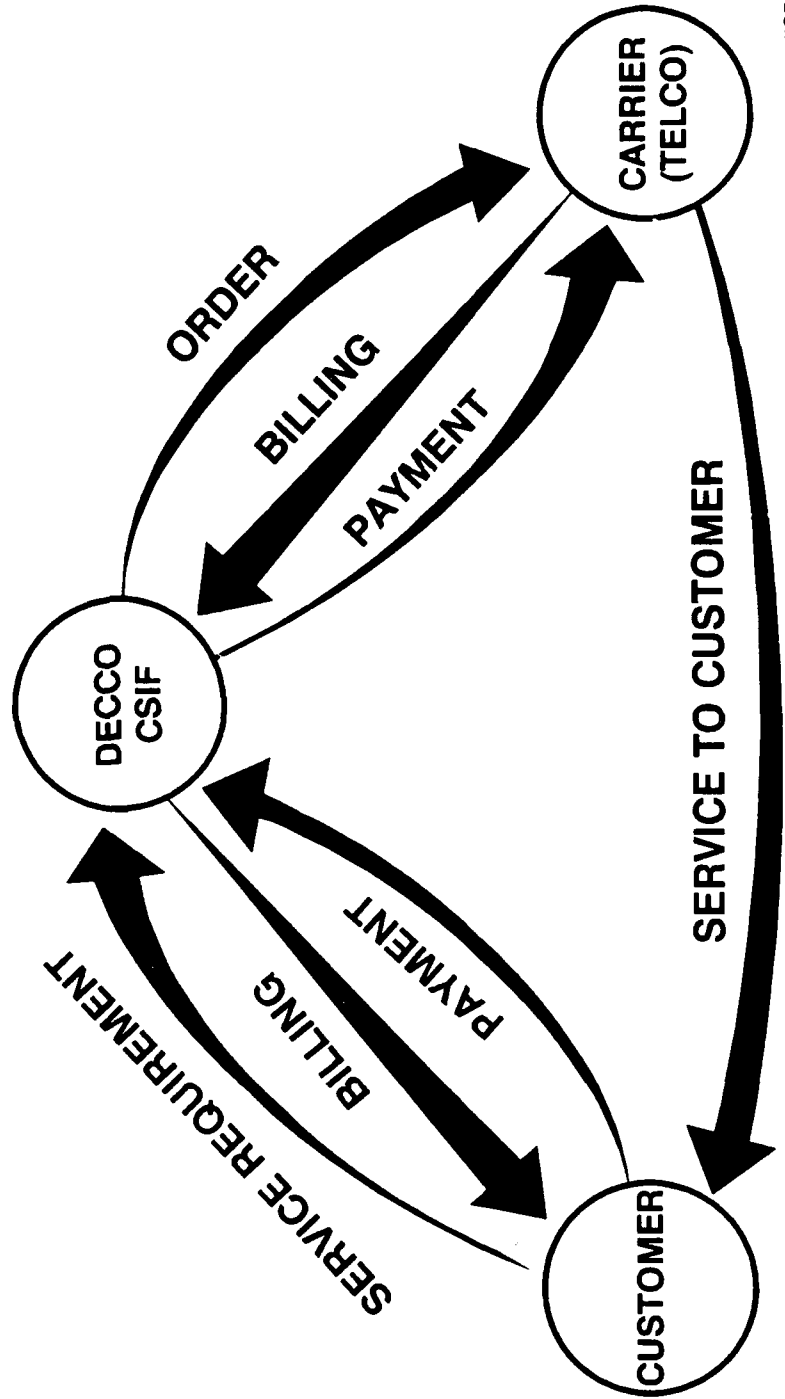


THE REQUIREMENT FLOW PROCESS

- **MILDEP/AGENCY/FAA USER INITIATES REQUEST FOR SERVICE**
- **MILDEP/AGENCY/FAA TCO REVIEWS REQUIREMENT/GENERATES TSR**
- **DCA ALLOCATION ENGINEERING DIVISION REVIEWS/GENERATES TSO/TLA**
- **DECCO**
 - REVIEWS SOW/ACQUISITION PLAN/JUSTIFICATION FOR LTFAOC
 - SOLICITS INDUSTRY
 - NEGOTIATES/AWARDS CONTRACT(S)/CSA(S)
 - ADMINISTERS CONTRACTS, CHANGES, MODIFICATIONS, ETC
 - PAYS BILLS/RECEIVES REIMBURSEMENT FROM MILDEP/AGENCY/FAA

COMMUNICATIONS SERVICES SERVICES INDUSTRIAL FUND (CSIF)

\$20,000,000



#054-G-CV

FOUR BASIC CATEGORIES OF SERVICE

- **CIRCUITRY**
- **CUSTOMER PREMISES EQUIPMENT (CPE)
(GENERALLY LEASED WITH MAINTENANCE)**
- **CIRCUITRY WITH ASSOCIATED CPE**
- **COMMUNICATIONS SYSTEMS/NETWORKS**

CIRCUITRY

60% OF DECCO'S CSAs

- **PRIMARILY LONG-HAUL, DEDICATED, POINT-TO-POINT**
- **MINIMAL LOCAL BUSINESS/FX LINES**
- **SWITCHED/VOICE AND DATA**
- **POINT-TO-POINT VOICE AND DATA**
- **VOICE/DATA TRUNKS AND TAILS**
- **INTER/INTRALATA**
- **INTERNATIONAL WITH & WITHOUT CONUS/FOREIGN TAILS**
- **MULTIMEDIA**
 - **TERRESTRIAL**
 - **MICROWAVE**
 - **FIBER OPTIC**
 - **SATELLITE**

CUSTOMER PREMISES EQUIPMENT

- **MULTIPLEXERS**
- **MODEMS**
- **DATA TERMINAL EQUIPMENT FOR COMM CENTERS**
- **SPECIAL PURPOSE CONSOLES**
- **TASI EQUIPMENT**
- **FACSIMILE (BOTH SECURE/NON-SECURE)**
- **SPECIAL PURPOSE PBXs**
- **SPECIAL PURPOSE EQUIPMENT**

CIRCUITRY WITH ASSOCIATED CPE

● DATA CIRCUITS

- WIDEBAND (UP TO 1.544)
- TRUNKS WITH MULTIPLEXERS
- TAILS WITH MODEMS
- TELETYPE
- SECURE/NON-SECURE FAX

● VOICE CIRCUITS

- SECURE/NON-SECURE
- WITH KEY EQUIPMENT
- WITH SIGNALING EQUIPMENT
- WITH SWITCHING EQUIPMENT
- ALTERNATE VOICE/DATA

● PUBLIC DATA NETWORK SERVICE

COMMON USER COMMUNICATIONS SYSTEMS/NETWORKS

- **AUTOVON**
- **AUTODIN**
- **DDN**
- **DCTN**
- **OTS**
- **WAWS**
- **WORLDWIDE CHANNELPACK**
- **IEMATS**
- **OTHER COMMAND AND CONTROL**

DECCO - COSTS OF COMMON USER NETWORKS/SYSTEMS - FY87

AUTODIN I	\$93.7 M
AUTOVON	301.3
DEFENSE DATA NETWORK	96.3
ARPA NETWORK	5.0
WASHINGTON AREA WIDEBAND SYSTEM	10.6
HAWAIIAN AREA WIDEBAND SYSTEM	1.6
BULK ENCRYPTED COMM SYSTEMS	3.0
DEFENSE COMMERCIAL TELECOM NETWORK	7.7
	<hr/>
DECCO OVERHEAD	\$519.2 M
DEDICATED LINES AND ALL OTHERS	13.1
	692.8
	<hr/>
TOTAL	\$1,225.1 M

OVERVIEW OF MAJOR POLICIES/PROCEDURES

- **MAXIMIZE COMPETITION**
- **BASIC AGREEMENTS**
- **INQUIRY/QUOTE/ORDER**
- **NOTICE TO CONTRACTORS**
- **SINGLE CSA**
- **USE OF BULK CONTRACTS**

CONTRACT METHODS/MEDIA

- **BASIC AGREEMENTS**
- **INQUIRY/QUOTE/ORDER**
- **DIRECT ORDERS**
- **ORDERS AGAINST GSA SCHEDULES**
- **FORMAL RFP/STAND-ALONE CONTRACT**
- **INDEFINITE DELIVERY/QUANTITY
"BULK" CONTRACTS**

BASIC AGREEMENTS

- **COVERED BY FAR 16.702**
- **USED WITH 97% OF DECCO CONTRACTS**
- **EXECUTED WITH APPROXIMATELY 450 COMPANIES**
- **NOT A CONTRACT**
 - CONTAINS NO SERVICES/PRICES
 - WRITTEN UNDERSTANDING OF TERMS AND CONDITIONS THAT APPLY TO CONTRACTS
 - NEW VERSION HAS SECTIONS FOR BOTH TARIFFED AND NON-TARIFFED SERVICE
 - HAS GENERAL AND SPECIAL PROVISIONS
- **FACILITIES INQUIRY/QUOTE/ORDER PROCEDURE**
 - PRIMARILY FOR LOW VALUE/HIGH VOLUME SERVICES
 - RARELY USED FOR EQUIPMENT LEASES

IMPACTS OF DIVESTITURE

● PROVISIONING

- DOD MAY BECOME "INTEGRATING CONTRACTOR"
- LEAD TIMES STRETCHED OUT
- LESS COORDINATION/COOPERATION BETWEEN ATT-IS/ATT-COM/RBOCs/BOCs
- DOD NO LONGER GETS "SPECIAL" HANDLING
- CPE DETARIFFED - MUST COMPETE

● BILLING

- SINGLE BILL FOR END-TO-END SERVICES MORE COSTLY/DIFFICULT
- RECORD TRANSFERS BEHIND SCHEDULE
- BOCs STRIPPING OFF CPE
- ATT-LONG LINES NO LONGER DICTATES UNIFORM GUIDANCE ON FORMAT/CONTENT
- INCREASED PAPER vs MAG TAPE MEDIA

● MAINTENANCE

- CPE DETARIFFED/RESPONSE TIMES UNCERTAIN BUT COSTS RISING

CHALLENGES DECCO FACES

- **MAINTAINING EXISTING SERVICES**
- **OBTAINING AND TRAINING PERSONNEL**
- **REASSESS COSTS/BENEFITS OF SINGLE CSA**
- **GENERIC SPECIFICATIONS FOR SERVICES**
- **ASSUMING ROLE OF "INTEGRATING CONTRACTOR"**
- **DEALING WITH THOUSANDS OF CONTRACTORS IN A DEREGULATED ENVIRONMENT**
- **HANDLING HUNDREDS OF DISSIMILAR AUTOMATED CONTRACTOR BILLING SYSTEMS**
- **COMPLIANCE WITH CICA AND PROMPT PAYMENT ACT PROVISIONS**

DECCO INITIATIVES

- **TO INCREASE EFFICIENCY**
 - RETAIN BASIC AGREEMENTS WITH REGULATED CARRIERS
 - REASSESS NEED FOR SIMILAR AGREEMENTS WITH NON REGULATED
 - ENCOURAGE STANDARDIZED MAG TAPE BILLING
 - STIPULATE BILLING REQUIREMENTS IN COMPETITIVE CONTRACTS
 - CONSOLIDATE OR PACKAGE FRAGMENTED REQUIREMENTS
 - DEVELOP NEW SOFTWARE FOR PROCESSING HIGH VOLUME/LOW VALUE SERVICES
 - EMPHASIS ON TRAINING
- **DECCO'S ACQUISITION BULLETIN BOARD SYSTEM (DABBS)**
- **REORGANIZATION INITIATIVES/CONTRACTING OUT**
- **PLAN TO RECOMPETE EXPIRED CONTRACTS**
- **OFFICE AUTOMATION**
- **PROGRAMMING FOR NEW FACILITY**

SMALL AND DISADVANTAGED BUSINESS UTILIZATION PROGRAM

- SMALL BUSINESS DEFINITIONS**
- SMALL BUSINESS ACT**
- OUTREACH ACTIVITY**
- DCA GOAL ATTAINMENT**

SMALL BUSINESS

WHO ARE THEY - WHAT DO THEY DO -

- **97% OF ALL BUSINESS FIRMS ARE SMALL**
13.2 MILLION SMALL ENTERPRISES (3 MILLION FARMS)
- **ACCOUNT FOR 48% OF THE NON FARM GNP**
- **55% OF LABOR FORCE EMPLOYED BY FIRMS UNDER 100 EMPLOYEES**
- **CREATED TWO-THIRDS OF ALL NEW JOBS IN LAST TEN YEARS**
- **WIN \$1 OUT OF \$2 IN OPEN COMPETITION**
- **SMALL BUSINESS LEADS IN INNOVATIVE R&D**
PRODUCED 24 TIMES AS MANY MAJOR INNOVATIONS AS LARGE BUSINESS
RATIO OF INNOVATIONS FOUR TIMES GREATER FOR SMALL BUSINESS
THAN LARGE FIRMS

SMALL BUSINESS ACT

- **CREATED SMALL BUSINESS ADMINISTRATION**
- **PROVIDED AUTHORITY FOR SPECIAL ASSISTANCE TO MINORITY BUSINESS ENTERPRISE (MBE) - SECTION 8(A), 1958 AMENDMENT**
- **INSURED THAT A FAIR SHARE OF GOVERNMENT PROCUREMENT DOLLAR WILL GO TO SMALL BUSINESS (SB)**

SMALL BUSINESS ACT, REVISED

- **DEFINE SMALL DISADVANTAGED BUSINESS**
- **REQUIRES SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS SUBCONTRACT GOALS**
- **PRESCRIBES ADDITIONAL SBA AUTHORITY**
- **REQUIRES AGENCIES TO ESTABLISH SMALL BUSINESS GOALS AND REPORT WHEN THEY ARE NOT MET**
- **AWARDS UNDER \$25,000 RESERVED FOR SMALL BUSINESS**
- **REQUIRES ESTABLISHMENT OF OFFICE OF SMALL AND DISADVANTAGED BUSINESS UTILIZATION**
 - **DIRECTOR APPOINTED BY HEAD OF AGENCY**
 - **DIRECTOR REPORTS TO HEAD OF AGENCY OR DEPUTY**

DCA OFFICE OF SMALL AND DISADVANTAGED BUSINESS UTILIZATION

- ESTABLISH DIRECTOR SMALL BUSINESS AND
SMALL DISADVANTAGED BUSINESS UTILIZATION
PROGRAM IN THE COMPETITION ADVOCATE'S
OFFICE FOR THE TOTAL AGENCY**
- ESTABLISH AN ASSOCIATE DIRECTOR SMALL
BUSINESS AND SMALL DISADVANTAGED BUSINESS
UTILIZATION PROGRAM IN THE ACTIVITY
COMPETITION ADVOCATE OFFICE AT DECCO**

SMALL BUSINESS SET-ASIDES

FOR A BUSINESS TO QUALIFY IT MUST:

- **BE ORGANIZED FOR PROFIT**
- **HAVE PLACE OF BUSINESS IN U.S.**
- **MAKE SIGNIFICANT CONTRIBUTION TO U.S. ECONOMY, BUT NOT DOMINANT IN THE MARKET PLACE**
- **MEET THE SMALL BUSINESS SIZE STANDARD**

HOW SMALL IS SMALL?

<u>TYPE OF BUSINESS</u>	<u>SIZE STANDARD RANGE</u> <u>NOT TO EXCEED</u>
CONSTRUCTION	\$7M TO \$17M ANNUALLY
R&D	IF NOT MFG, 500 EMPLOYEES IF MFG. PRODUCT, SIZE STAND- DEPENDS ON SPECIFIC INDUSTRY (SEE FAR 19.101)
SERVICES	\$2.5M TO \$14.5M ANNUALLY
COMPUTER RELATED SERVICES NON-MFG	\$7M TO \$12.5M ANNUALLY

SET-ASIDE PRIORITIES

- 1. TOTAL SMALL DISADVANTAGED BUSINESS**
- 2. COMBINED SMALL BUSINESS/LABOR SURPLUS
AREA (LSA)**
- 3. PARTIAL SET-ASIDE FOR LSA FIRMS**
- 4. TOTAL SET-ASIDE FOR SMALL BUSINESS FIRMS**
- 5. PARTIAL SET-ASIDE FOR SMALL BUSINESS FIRMS**

WHO ARE SMALL DISADVANTAGED BUSINESS CONCERNS

AS PRESCRIBED IN FAR 19.508-71, "A SMALL DISADVANTAGED BUSINESS CONCERN IS A COMPANY THAT:

(1) IS AT LEAST 51 PERCENT OWNED BY ONE OR MORE INDIVIDUALS WHO ARE BOTH SOCIALLY AND ECONOMICALLY DISADVANTAGED, OR A PUBLICLY OWNED BUSINESS HAVING AT LEAST 51 PERCENT OF ITS STOCK OWNED BY ONE OR MORE SOCIALLY AND ECONOMICALLY DISADVANTAGED INDIVIDUALS, (2) HAS ITS MANAGEMENT AND DAILY BUSINESS CONTROLLED BY ONE OR MORE SUCH INDIVIDUALS AND (3) THE MAJORITY OF THE EARNINGS OF WHICH ACCURE TO SUCH SOCIALLY AND ECONOMICALLY DISADVANTAGED INDIVIDUALS."

OSD POLICY DIRECTIONS

FY88

- **ESTABLISH AN OBJECTIVE THAT 5 PERCENT OF TOTAL COMBINED DOD OBLIGATIONS FOR CONTRACTS AND SUBCONTRACTS AWARDED DURING FYS87-89, BE ENTERED INTO WITH SMALL DISADVANTAGED BUSINESS, HISTORICALLY BLACK COLLEGES AND UNIVERSITIES, AND MINORITY INSTITUTIONS**
- **DEVELOP OUTREACH PROGRAMS**
- **ENSURE THAT SDB GOALS IN SUBCONTRACTING PLANS REPRESENT TRULY CHALLENGING GOALS AND MAKE EVERY ATTEMPT TO INCREASE SDB SUBCONTRACT AWARDS**
- **REQUIRE SEMI-ANNUAL REPORTING TO CONGRESS OF OUR PROGRESS TO ATTAIN THE 5 PERCENT GOAL**

DEFENSE COMMUNICATIONS AGENCY SMALL BUSINESS GOAL ATTAINMENT

	<u>FY86 FINAL GOAL</u>	<u>FY86 *** ACHIEVEMENT</u>	<u>FY87 FINAL GOAL</u>	<u>FY87 *** ACHIEVEMENT</u>	<u>FY88 GOALS</u>
SMALL BUSINESS	11.0%	20.5%	3.2%	32.6%	16.7%
SMALL BUSINESS SET ASIDE	.5%	1.5%	.2%	3.6%	2.0%
SMALL DISADVANTAGED HISTORICALLY BLACK COLLEGES AND UNIVERSITIES	5.0%	2.4%	5.0%*	4.8%** (8.841M)	5%
WOMEN OWNED	.3M	1.123M	.3M	3.686M	\$.05M

* BASE OF \$200,000,000 FORECAST

** BASE OF \$183,945,000 EXPERIENCED

*** FIGURES REPRESENTS DCA HEADQUARTERS ONLY

OUTREACH ACTIVITIES

- **OSD SPONSORED SMALL BUSINESS
CONFERENCES THROUGHOUT THE 10 FEDERAL
REGIONS**
- **OSD SPONSORED SMALL BUSINESS "HOW TO"
COUNSELING SERVICES**
- **DCA SPONSORED SMALL BUSINESS FAIR**
- **AGENCY ACQUISITION FORECAST**

PRESIDENT REAGAN'S STATEMENT*

**"LET US NOT OVERLOOK THE FACT THAT
THE SMALL, INDEPENDENT BUSINESS
MAN OR WOMAN CREATES MORE THAN
80 PERCENT OF ALL THE NEW JOBS AND
EMPLOYS MORE THAN HALF OF OUR
TOTAL WORK FORCE"**

*** Delivered Joint Session of Congress 28 April 81**

DCSO

DEFENSE COMMUNICATIONS SYSTEMS ORGANIZATION BRIEFINGS

- **DEFENSE SWITCHED NETWORKS** **MR BRIENZA**
- **DEFENSE DATA NETWORKS** **COL HERRICK**
- **DEFENSE SATELLITE COMMUNICATIONS** **COL CHOFFEL**
SYSTEM

DEFENSE SWITCHED NETWORK

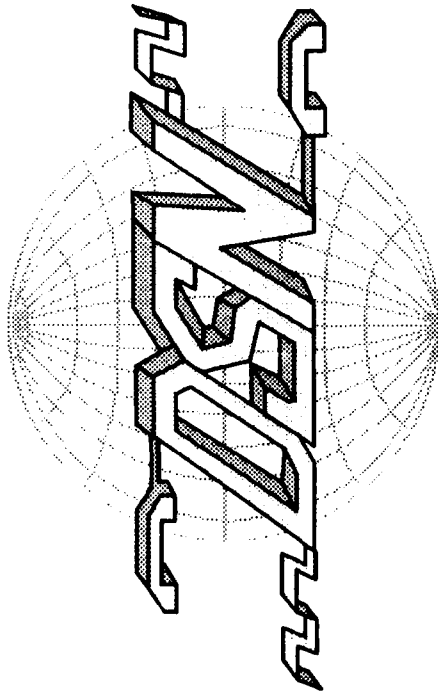


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OUTLINE

- **CONTRACT INFORMATION**
- **PURPOSE**
- **DEFINITION**
- **DSN SCOPE**
- **CAPABILITY OBJECTIVES**
- **OVERVIEW OF DSN PHASES**
- **CURRENT CONTRACTS**
- **FUTURE CONTRACTS**
- **SUMMARY**

DEFENSE SWITCHED NETWORK



DESCRIPTION

- DSN PROGRAM PLAN
- RFS/TSR/TSO
- SYSTEM DESIGN CONCEPTS AND POLICY
- CIRCUIT ALLOCATION ENG
- TECHNICAL DOCUMENTATION REVIEW
- TRANSMISSION PLANNING
- SYSTEM OPS/ENG AND MANAGEMENT
- NETWORK MANAGEMENT
- DATA BASE MANAGEMENT
- TRAFFIC ENG/DATA COLLECTION/FORECASTING
- NETWORK IMPLEMENTATION AND INSTALLATION PLANNING
- CUTOVER PLANNING

CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMANDS/AGENCIES: DCA

POINTS OF CONTACT: ALLEN-HENEMAN

KEY LOCATIONS: WASHINGTON, DC

WHEELER AFB, HI

VAIHINGEN, WEST GERMANY

CONTRACT PERIOD: DOLLAR VALUE:

DSN PM FY88-FY90 3,579,600

DSN BACKBONE FY88-FY90 7,864,601

KEY MILESTONES

DSN PROGRAM MANAGEMENT SUPPORT

- BASE YEAR COMPLETED: SEP 88
- FIRST PRICED OPTION COMPLETED: SEP 89
- SECOND PRICED OPTION COMPLETED: SEP 90

DSN BACKBONE SUPPORT

- BASE YEAR COMPLETED: OCT 88
- FIRST PRICED OPTION COMPLETED: OCT 89
- SECOND PRICED OPTION COMPLETED: OCT 90

DSN WORLDWIDE SUPPORT

- RFP RELEASE: NOV 89
- CONTRACT AWARD: JUL 90

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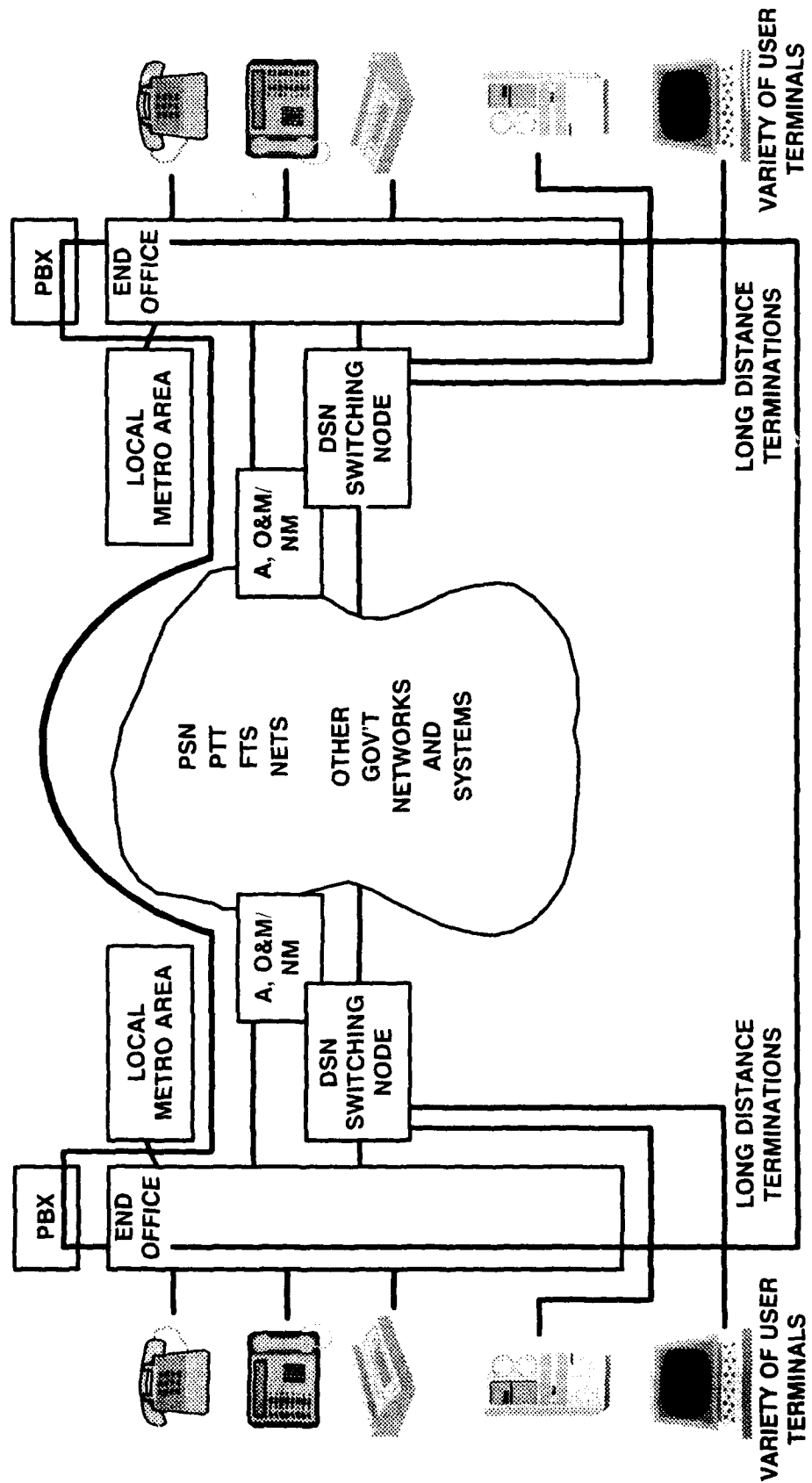
PURPOSE

- **PROVIDE SURVIVABLE, RAPID, AND ECONOMICAL
TELECOMMUNICATIONS HIGH PRIORITY USERS**
- **PROVIDE SERVICE TO LOWER PRIORITY USERS ON A
NON-INTERFERENCE BASIS FOR ECONOMY**

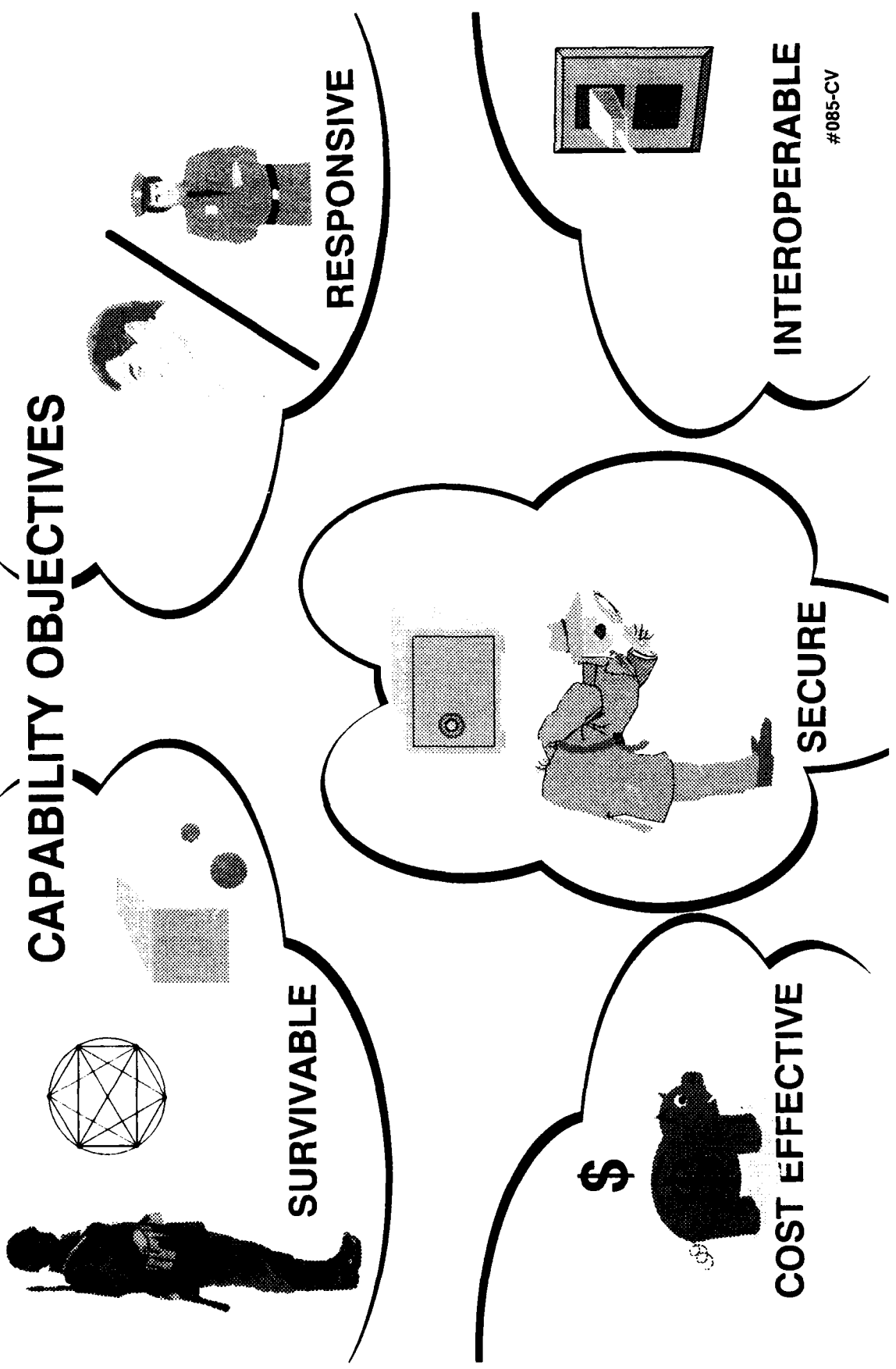
DEFINITION

“INTER-BASE TELECOMMUNICATIONS SYSTEM WHICH PROVIDES END-TO-END COMMON USER AND DEDICATED TELEPHONE SERVICE FOR THE DoD WITH LATER CAPABILITY OF INCORPORATING DATA AND OTHER TRAFFIC”

DSN SCOPE

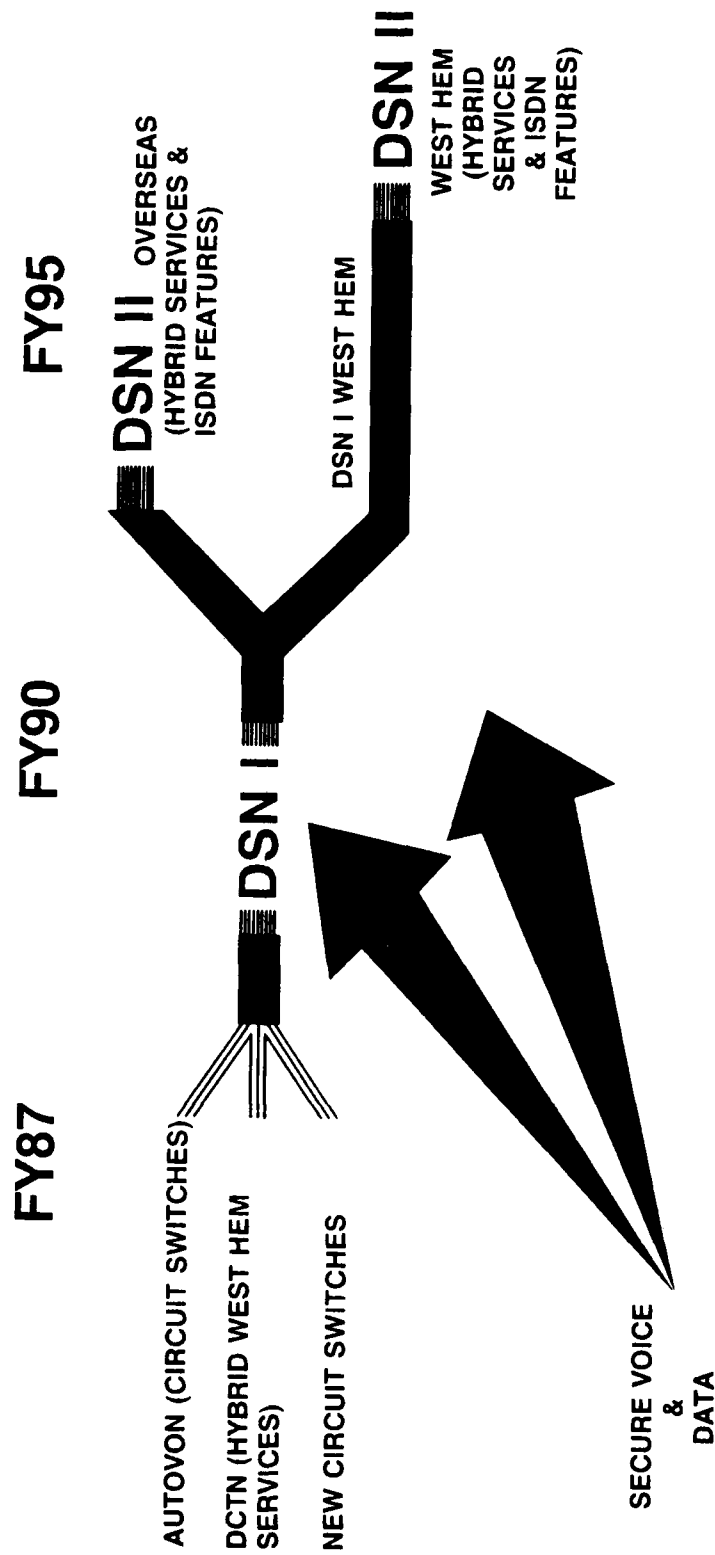


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OVERVIEW OF DSN PHASES



MAJOR DSN CONTRACTUAL EFFORTS

(DEPUTY DIRECTOR DCS TELECOMMUNICATIONS NETWORKS)

CURRENT

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD
DCA100-87-C-0155	DEFENSE SWITCHED	GTE	1,200,000	OCT 87-SEP 88
	NETWORK (DSN)		1,400,000	OCT 88-SEP 89
	PROGRAM		1,100,000	OCT 89-SEP 90
	MANAGEMENT			
	SUPPORT			
DCA100-88-C-0017	DEFENSE SWITCHED	GTE	2,900,000	NOV 87-OCT 88
	NETWORK (DSN)		2,700,000	NOV 88-OCT 89
	BACKBONE		2,400,000	NOV 89-OCT 90
	SUPPORT			

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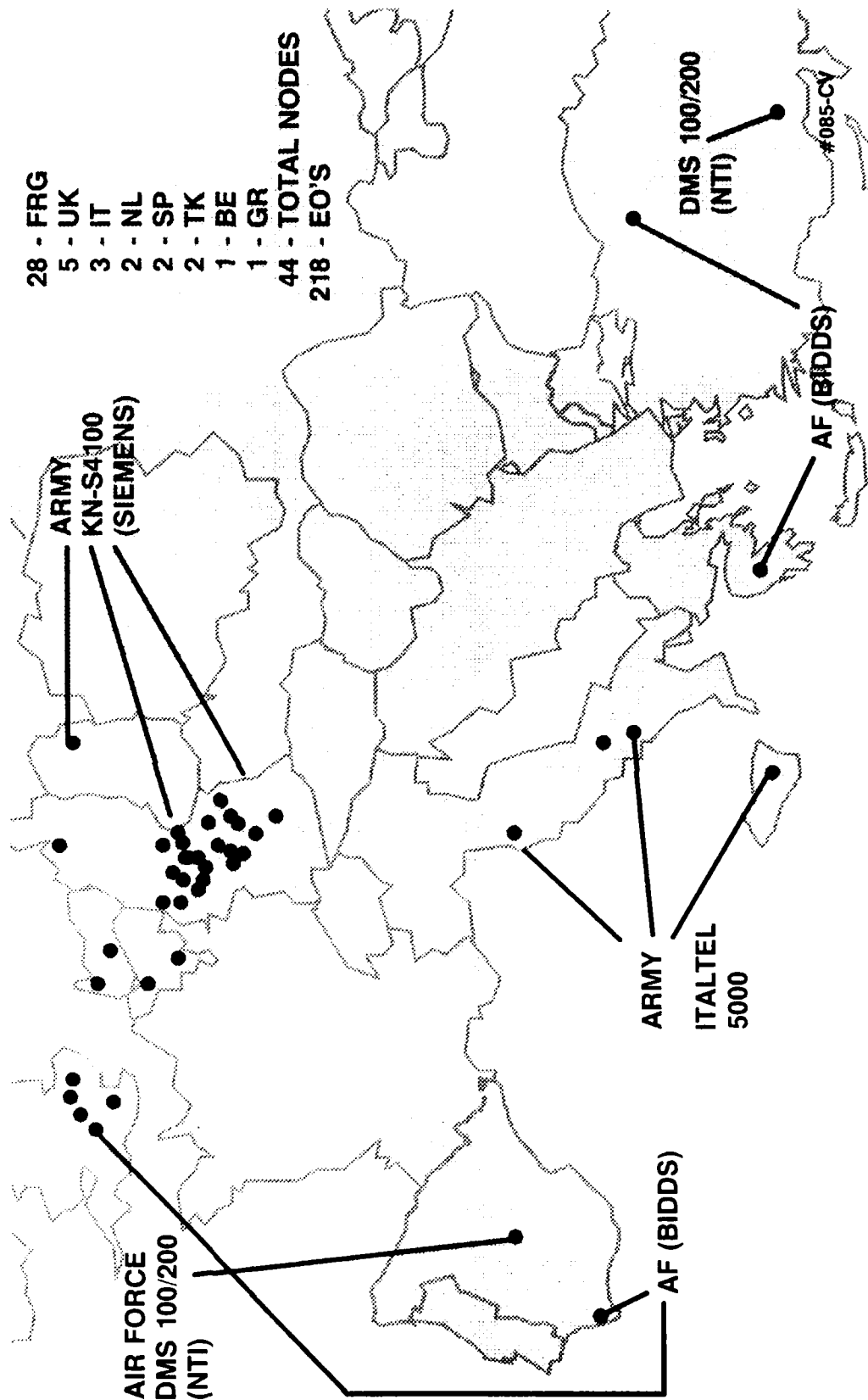
MAJOR DSN CONTRACTUAL EFFORTS
(DEPUTY DIRECTOR DCS TELECOMMUNICATIONS NETWORKS)

FUTURE

DESCRIPTION	VALUE RANGE	ANNOUNCEMENT	PERIOD
DEFENSE SWITCHED	5,000,000	OCTOBER 89	OCT 90-SEP 91
NETWORK (DSN)	5,000,000		OCT 91-SEP 92
WORLDWIDE	5,000,000		OCT 92-SEP 93
SUPPORT			

#085-CV

DSN-EUR CIRCUIT SWITCHED NODES



AF DMS 100/200 (NTI)

JAPAN

MARINES

ARMY (JTU)

NAVY

SL100 (NTI)

ARMY (NEC)

AF DMS 100/200 (NTI)

KOREA

ARMY SL100 (NTI)

AF DMS 100/200 (NTI)

GUAM

PHILIPPINES

HAWAII

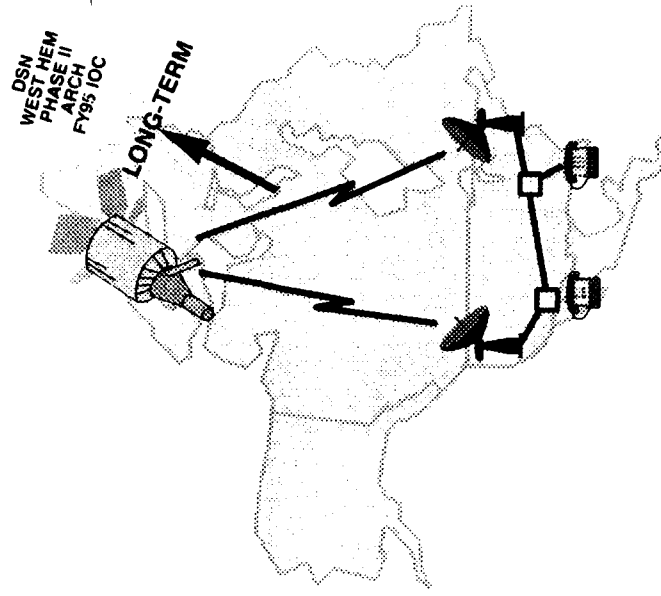
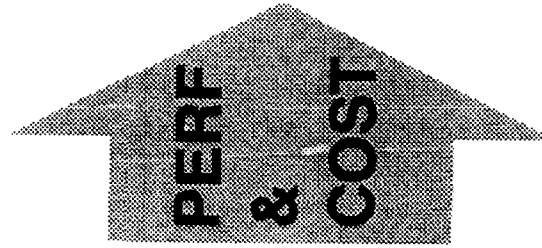
5 - OTS	19 - TOTAL NODES
7 - KOREA	
5 - JAPAN/OKINAWA	61 - EO'S
1 - GUAM	
1 - PHILIPPINES	

DCA GTD-5 (GTE)

#085-CV

13

DSN WEST HEM



BEFORE
AUTOVON

TODAY & TOMORROW
DSN PHASE I
UP TO FY95

SUMMARY

- DSN IS A COMPLEX MULTIFACETED TELECOMMUNICATIONS NETWORK
- DSN IS HEAVILY DEPENDENT ON CONTRACT SUPPORT
 - PROGRAMMATIC DOCUMENTATION/ANALYSIS
 - SYSTEMS MANAGEMENT DOCUMENTATION/ANALYSIS
- COMPANIES WITH COMPREHENSIVE TELECOMMUNICATIONS NETWORK EXPERIENCE ARE NEEDED
- NEXT MAJOR OPPORTUNITY -- FY91 CONTRACT AWARD

DDN

DEFENSE DATA NETWORK

INFORMATION BRIEFING FOR INDUSTRY DAY

**COLONEL THOMAS M. HERRICK
PROGRAM MANAGER**

#088-CV

DEFENSE DATA NETWORK (DDN)

THE DATA COMMUNICATIONS SERVICE OF
THE DEFENSE COMMUNICATIONS SYSTEM.

THIS SERVICE UTILIZES PACKET SWITCHING
TECHNOLOGY TO PROVIDE WORLD-WIDE
DATA COMMUNICATIONS FOR INFORMATION
EXCHANGE AND FORCE MANAGEMENT.

FUNCTIONAL DESCRIPTION OF SYSTEM

SUPPORTS -

WHO: DEPARTMENT OF DEFENSE (DoD)
WHAT MSN: LONG HAUL DATA TRANSFER
HOW: WORLDWIDE PACKET SWITCHED NETWORK
WHY: MANDATED BY DEPUTY SECRETARY OF
DEFENSE 1982

CONTRACT DATA

CONTRACTING AGENCY: DEFENSE COMMUNICATIONS
AGENCY (DCA)
USER COMMAND/AGENCY: DEPARTMENT OF DEFENSE (DoD)
POINT OF CONTACT: COLONEL THOMAS M. HERRICK
KEY LOCATIONS: WORLDWIDE

CONTRACT PERIOD: '82-PRESENT
DOLLAR VALUE: \$98M/YEAR

KEY MILESTONES

GUIDELINES FOR DDN DEVELOPMENT AND
INSTALLATION (1986)
USER REQUIREMENTS DATA BASE
(1983-ONGOING)
COMPLETE PACKET SWITCHING NODE
ACQUISITION (1990)
CLASSIFIED SEGMENT ESTABLISHMENT
(1990)
CONNECT MULTI-LEVEL SECURE HOSTS
TO DISNET (1990-ONGOING) #088-CV

DDN OVERVIEW

- **OUR MISSION**
- **THE NETWORKS TODAY**
- **MEETING USER NEEDS**

DEFENSE DATA NETWORK MISSION

- DDN IS THE PRIMARY MEANS OF
PROVIDING LONG-HAUL COMMUNICATIONS
FOR ALL DoD DATA SYSTEMS
- PRINCIPAL ELEMENT OF DCS SUPPORTING
ALL DATA COMMUNICATIONS REQUIREMENTS

THE FAMILY OF DDN NETWORKS

THE NETWORKS TODAY

DSNET1 - DoD SCI USERS

DSNET2 - DoD SECRET USERS

DSNET3 - WWMCCS COMMUNITY

MILNET - DoD UNCLASSIFIED USERS

ARPANET - RESEARCH AND DEVELOPMENT COMMUNITY

OTHER

#088-CV

MILNET GEOGRAPHIC MAP

LEGEND

- SATELLITE CIRCUIT
- C/30 IMP *
- △ C/30 TAC **

OPERATIONAL	TAC'S
134	101

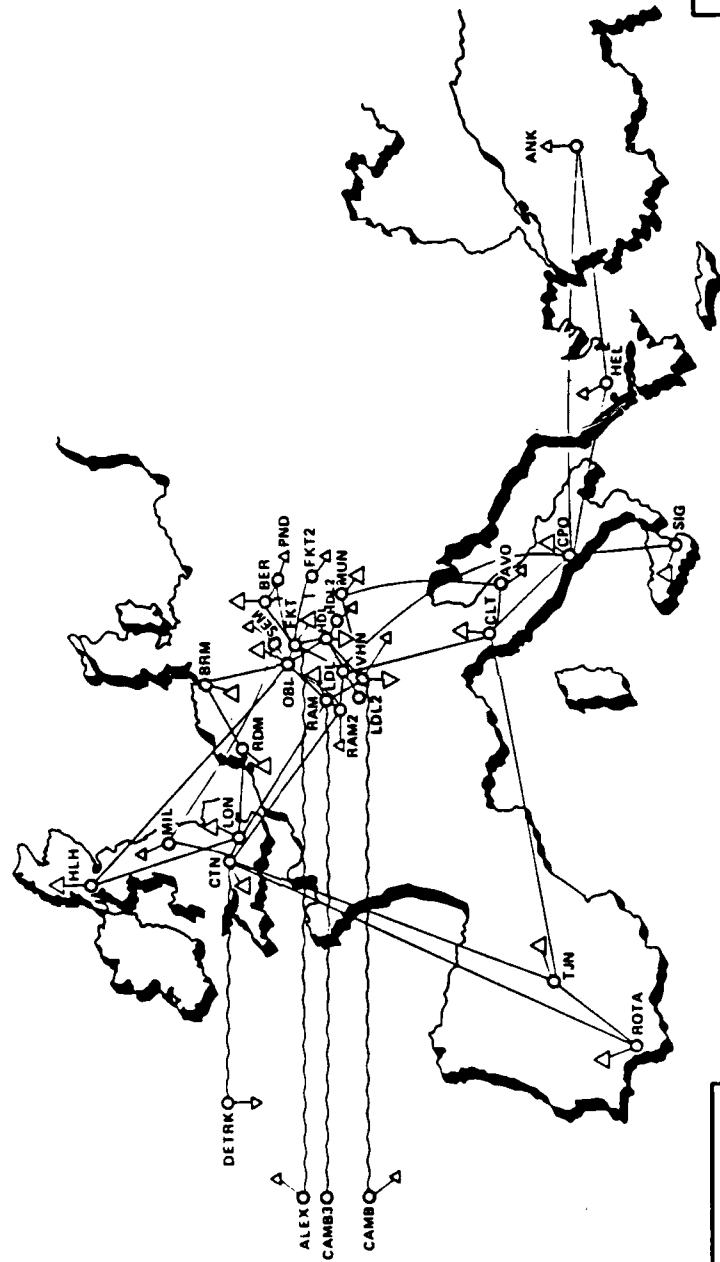
SATELLITE CIRCUIT
C/30 IMP *
C/30 TAC **

*** C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)**

**** C30 TAC = TERMINAL ACCESS CONTROLLER**

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EUROPEAN MILNET GEOGRAPHIC MAP



OPERATIONAL	
NODES	28
TAC'S	27

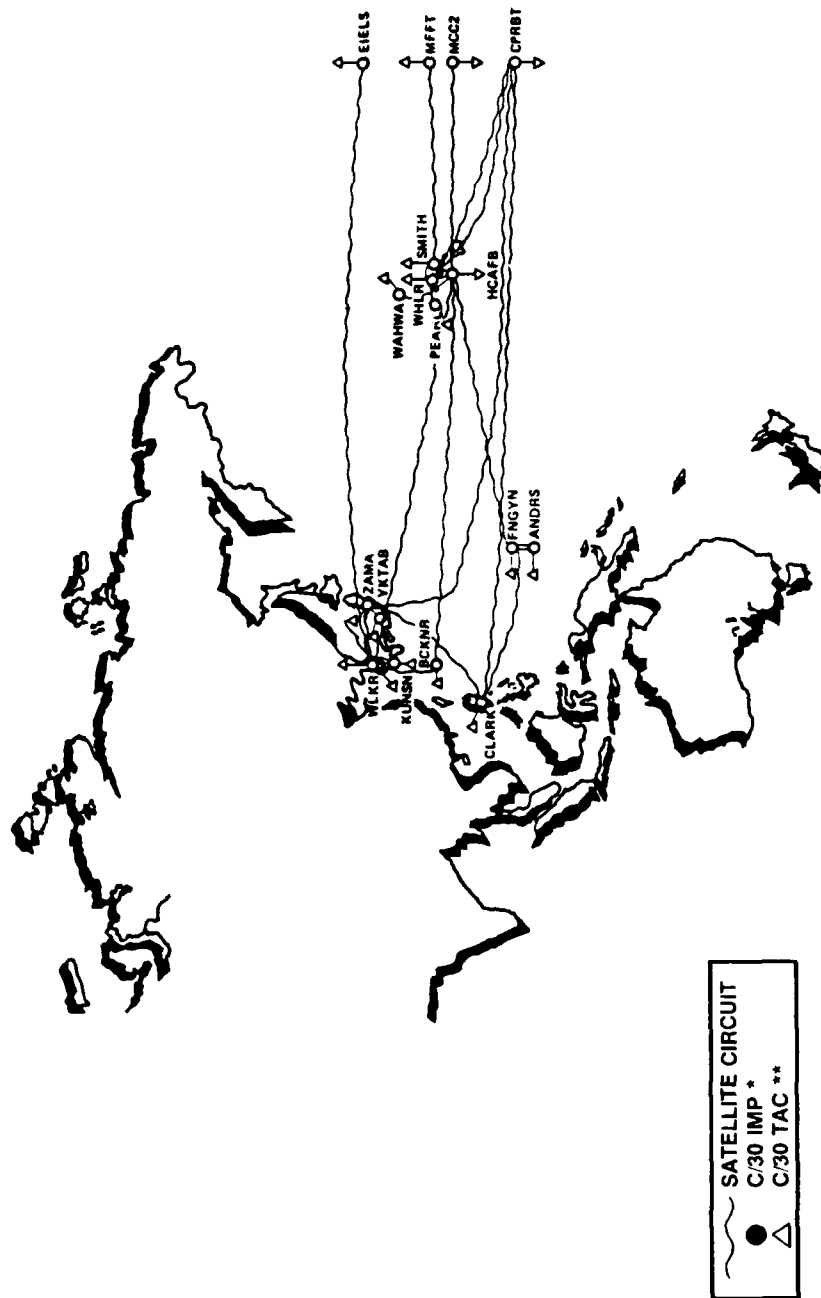
SATELLITE CIRCUIT
C/30 IMP *
C/30 TAC **

* C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)

**** C30 TAC = TERMINAL ACCESS CONTROLLER**

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PACIFIC MILNET GEOGRAPHIC MAP

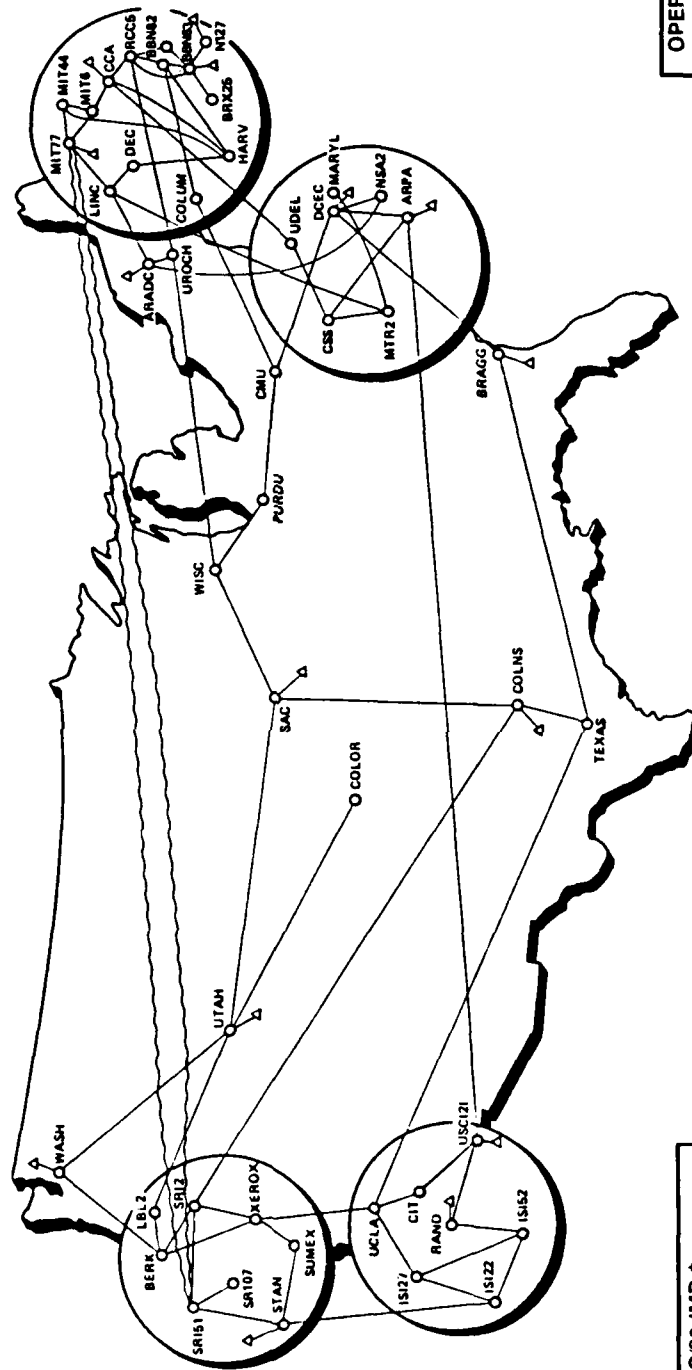


* C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)

** C30 TAC = TERMINAL ACCESS CONTROLLER

#088-CV

ARPANET GEOGRAPHIC MAP



OPERATIONAL	NODES	TAC'S
	47	16

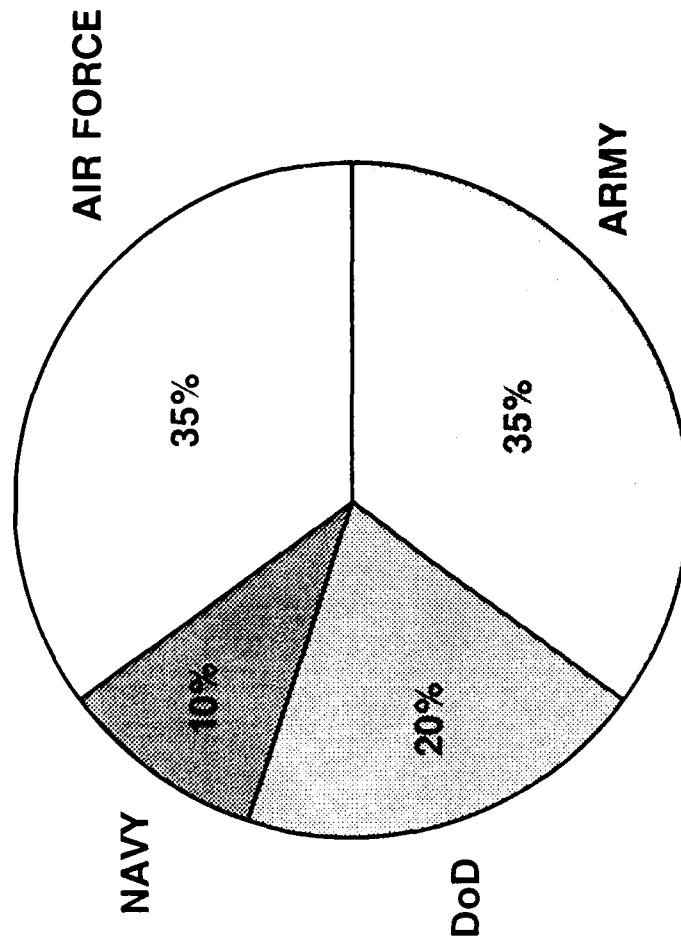
●	C/30 IMP *
△	C/30 TAC **
~~~~~	SATELLITE CIRCUIT

* C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)

** C30 TAC = TERMINAL ACCESS CONTROLLER

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# DDN REVISED REQUIREMENTS



REQUIREMENTS  
APPROXIMATELY 8,000 HOSTS

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# **USER ACTIVATION/NETWORK EXPANSION WORK PLAN FY88**

## **RESOURCES**

**HARDWARE/SOFTWARE  
OPERATIONS SUPPORT**

33%

**INFORMATION  
CENTER**

3%

**LEASE**

40%

## **LEGEND:**

**VSAT - VERY SMALL APERTURE TERMINAL (SATELLITE)**

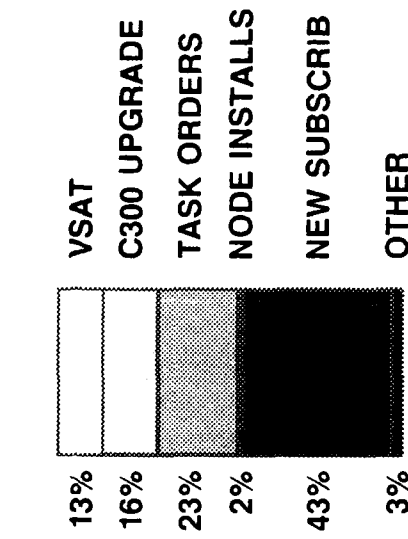
**C300 - UPGRADES THROUGHPUT CAPACITY OF DDN NODE**

**TASK ORDERS - ACTIVITIES PRIMARILY IN SUPPORT OF NETWORK SOFTWARE  
DEVELOPMENT**

**NODE INSTALLS - INSTALLATION ACTIVITIES; TO SHIP/INSTALL DDN NETWORK SWITCH**

**OTHER - ACTIVITIES IN GENERAL SUPPORT OF SPECIAL PROJECTS (CONCENTRATOR)**

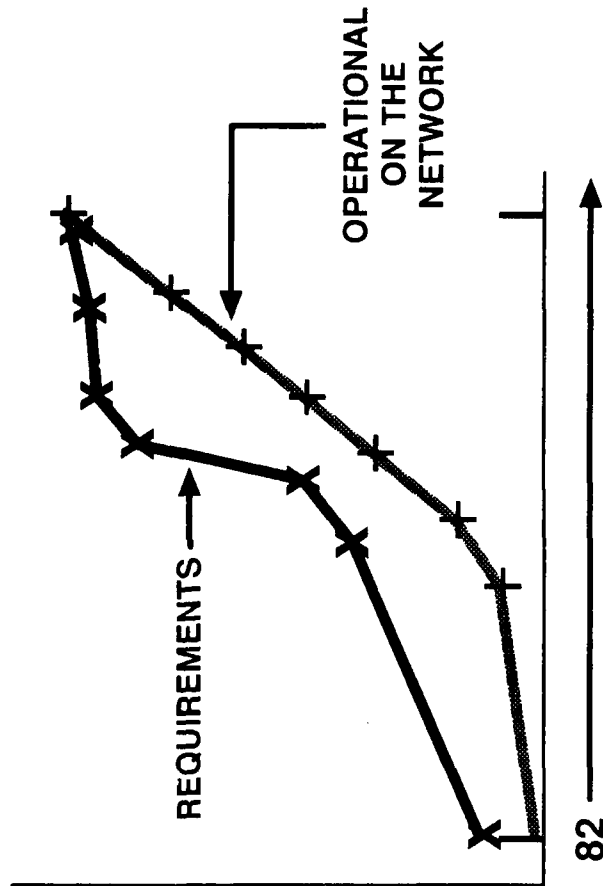
## **WORK PLAN**





# DDN REQUIREMENTS BY FISCAL YEAR

SUBSCRIBERS (THOUSANDS)



- DIFFICULT TO DEFINE
  - 1982 FORECASTED 488 HOSTS FOR 1986
  - 1987 REQUIREMENTS OF 1079 HOSTS
  - 1990 REQUIREMENTS OF 7877 HOSTS
- PROBLEMS CREATED
  - TOPOLOGY
  - EQUIPMENT
  - RESOURCE IMPACT

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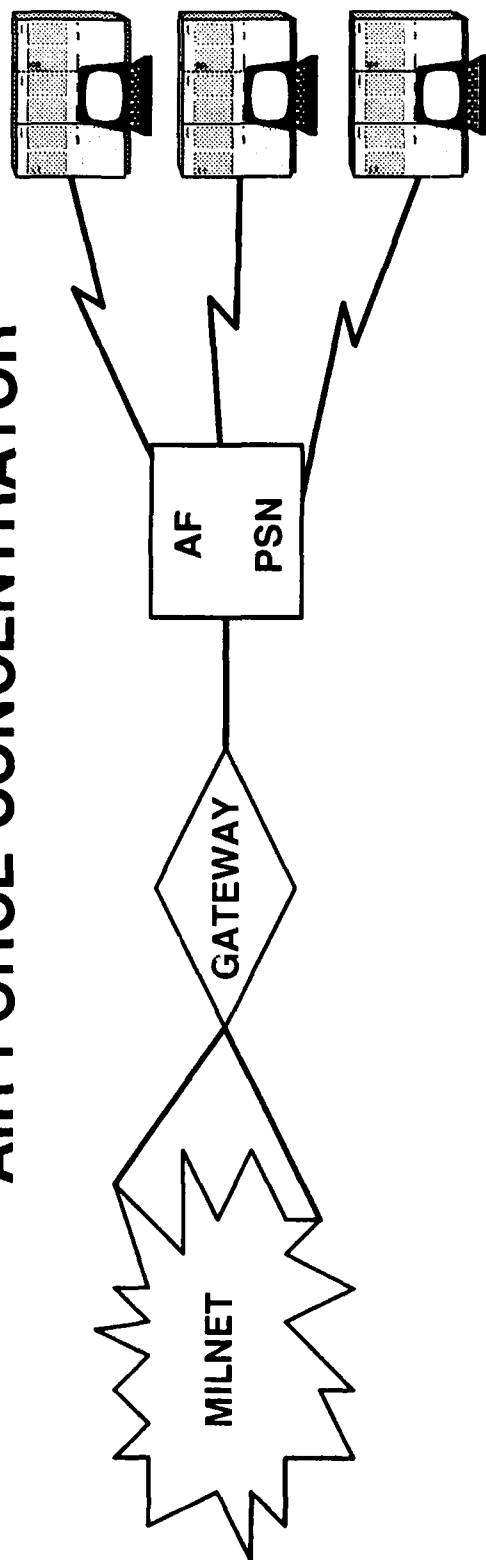
## **CURRENT INITIATIVES**

- **TIGER TEAMS: 26 COMPLETE/14 SCHEDULED, 700 PRE-CONFIGURED**
- **CONCENTRATOR: INSTALLED AT GUNTER AFS**
- **NETWORK OPTIMIZATION - NEW NODES, UPGRADES, RE-HOMES**
- **VSATs - 48 OPERATIONAL/TOTAL OF 100 THRU FY88**
- **T-1s - MORE TRANSMISSION CAPACITY FOR LESS \$\$\$**
- **C/300/PACKET SWITCHING NODE 7.0 - MORE CONNECTS/BANDWIDTH**
- **PRIORITIZATION - BY OJCS/SVCS/CINCS**

## **DDN TIGER TEAMS**

- **PURPOSE**
  - **MAXIMIZE USER CONNECTIONS**
- **ACCOMPLISHMENTS SINCE JULY 87**
  - **19 TEAMS DISPATCHED**
  - **22 NODES ACTIVATED**
  - **199 HOSTS CONNECTED**
  - **23 NEW TRUNKS ACTIVATED**
- **FUTURE**
  - **14 SITE VISITS PER MONTH, OR AS NEEDED**
  - **126 USER CONNECTIONS PER MONTH POSSIBLE**
  - **PRIORITIZATION WILL PERMIT MASTER SCHEDULE**

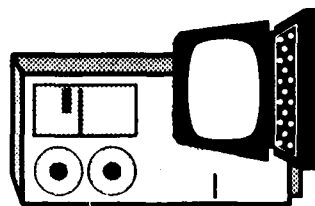
# AIR FORCE CONCENTRATOR



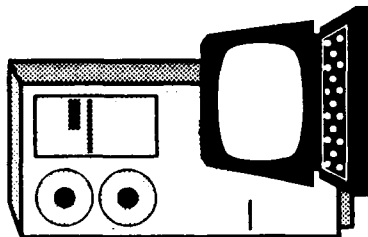
- PURPOSE - CONNECT MORE USERS FASTER; AVOID ACCESS COSTS
- PROTOTYPE AT GUNTER AFS
- SCHEDULE
  - PROTOTYPE INSTALLATION - 6 JANUARY 1988
  - CUTOVER - 11 JANUARY 1988
  - IOC - 29 JANUARY 1988
  - AF IMPLEMENTATIONS - TBD
- ALTERNATE CONFIGURATIONS
  - GATEWAYS
  - MULTIPLE CONCENTRATOR PSNs

#088-CV

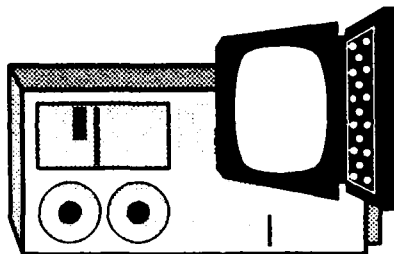
# NETWORK PERFORMANCE



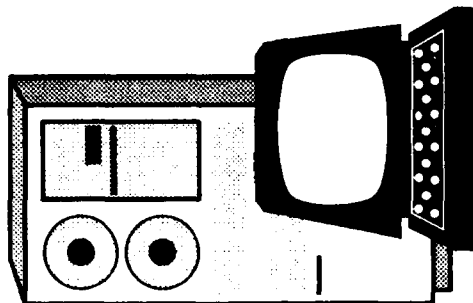
C/30E  
& PSN 5



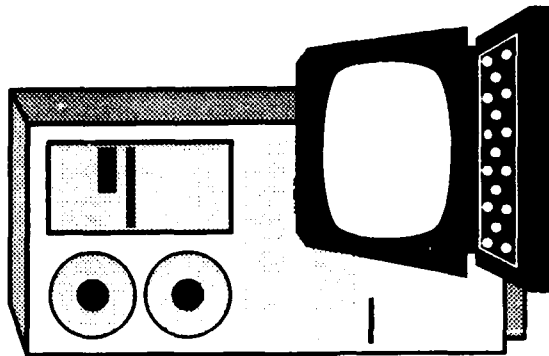
C/300  
& PSN 6



C/300  
& PSN 7



C/300  
& PSN 8/  
CONGESTION  
CONTROL



C/300  
& PSN 8/LARGE  
(DEVELOPMENT)  
NETWORK SUPPORT

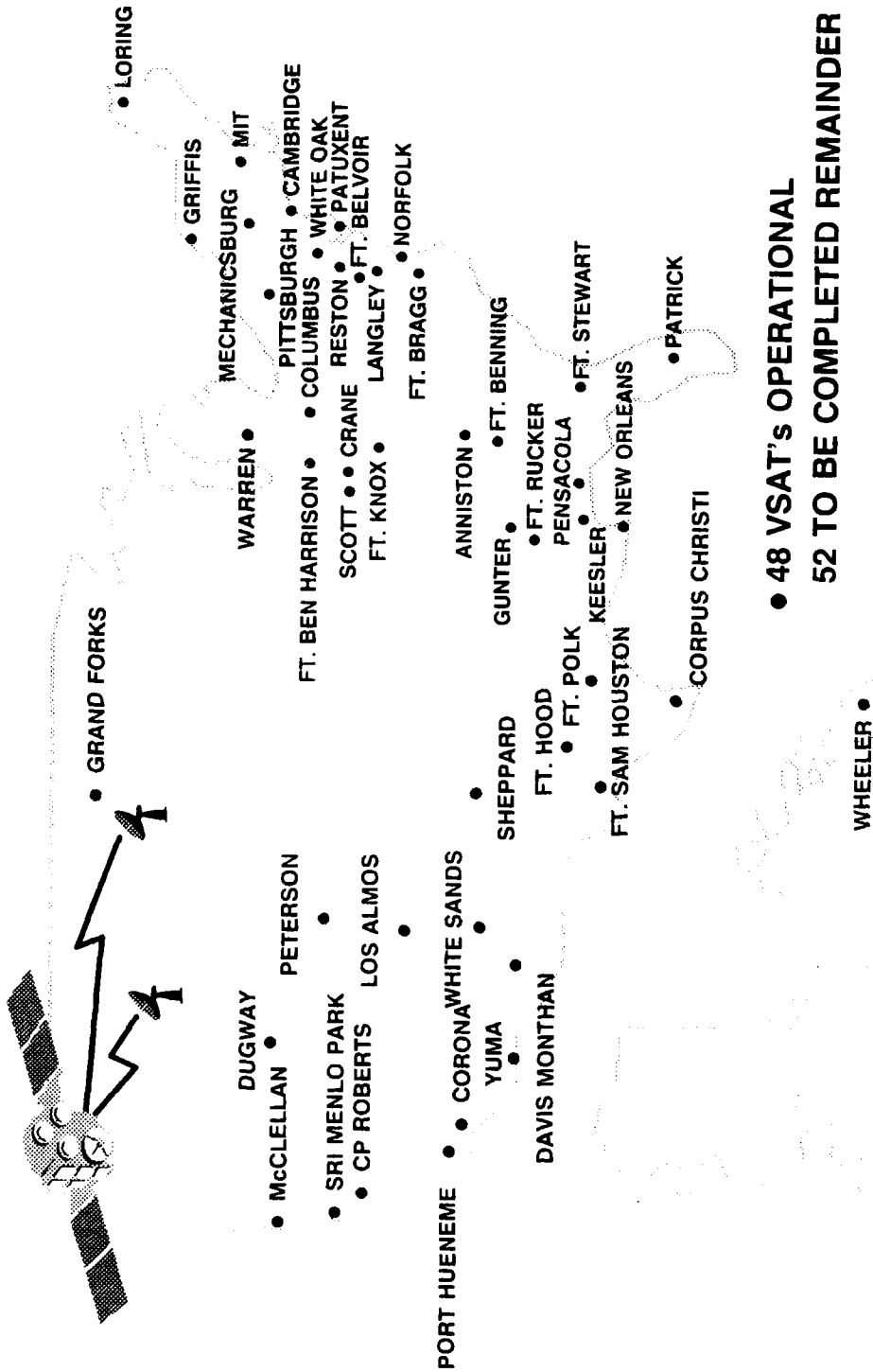
NOW ————— MAY 88 ————— DEC 88 ————— JUL 89

## LEGEND:

- C/30E - CURRENT VERSION OF PACKET SWITCH HARDWARE
- C/300 - UPGRADE OF PACKET SWITCH HARDWARE - FASTER PROCESSOR
- PSN6 - CURRENT VERSION OF PACKET SWITCH SOFTWARE
- PSN7 - NEW PROTOCOL PROVIDING PERFORMANCE IMPROVEMENT
- PSN8 - PROTOCOL PROVIDING CONGESTION CONTROL AND LARGE NET SUPPORT

#088-CV

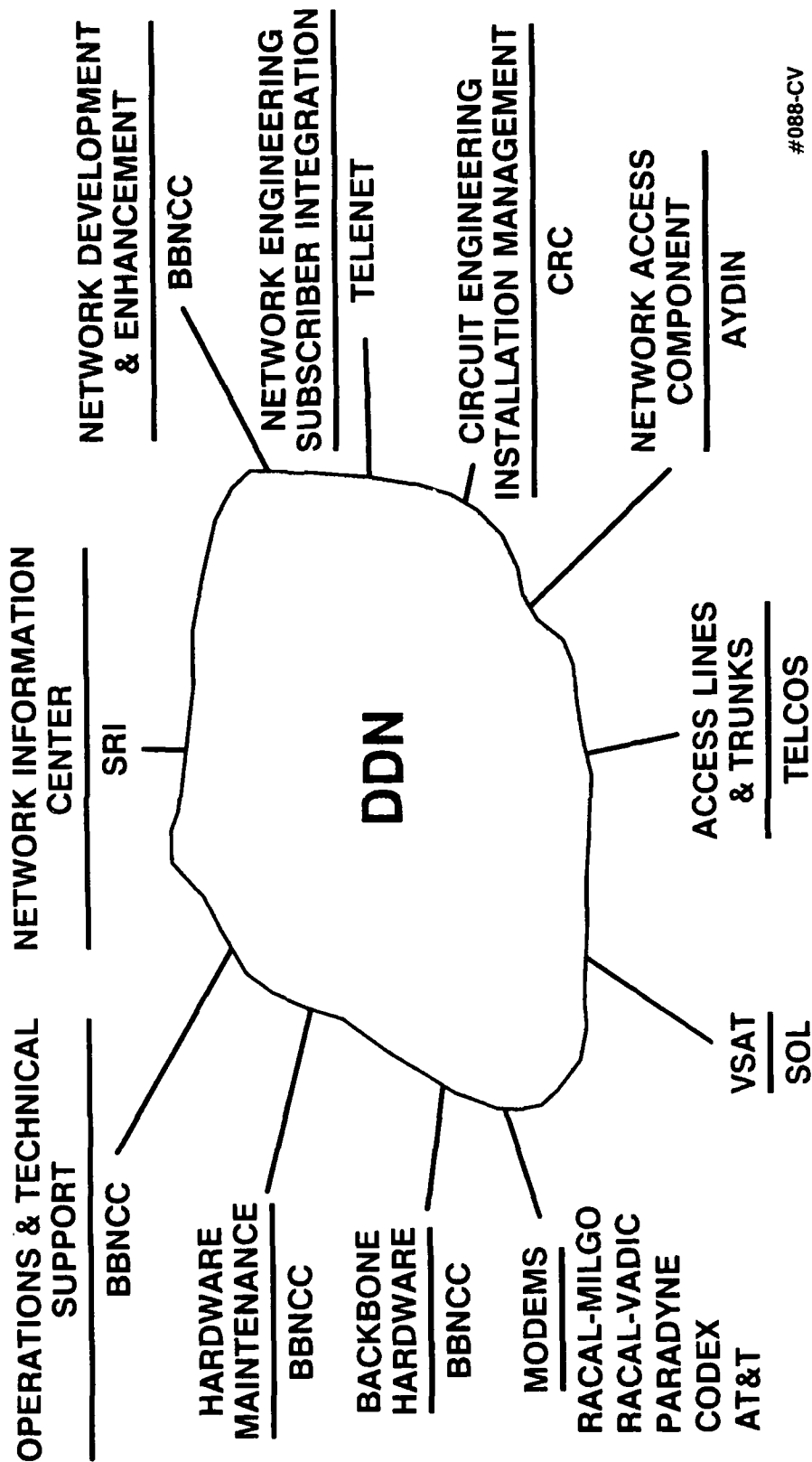
# VERY SMALL APERTURE TERMINAL



• 48 VSAT's OPERATIONAL  
52 TO BE COMPLETED REMAINDER CY 88

#088-CV

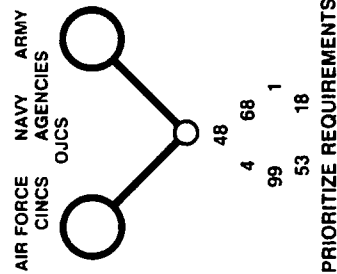
# CONTRACTS



#088-CV

# SUBSCRIBER PRIORITIZATION

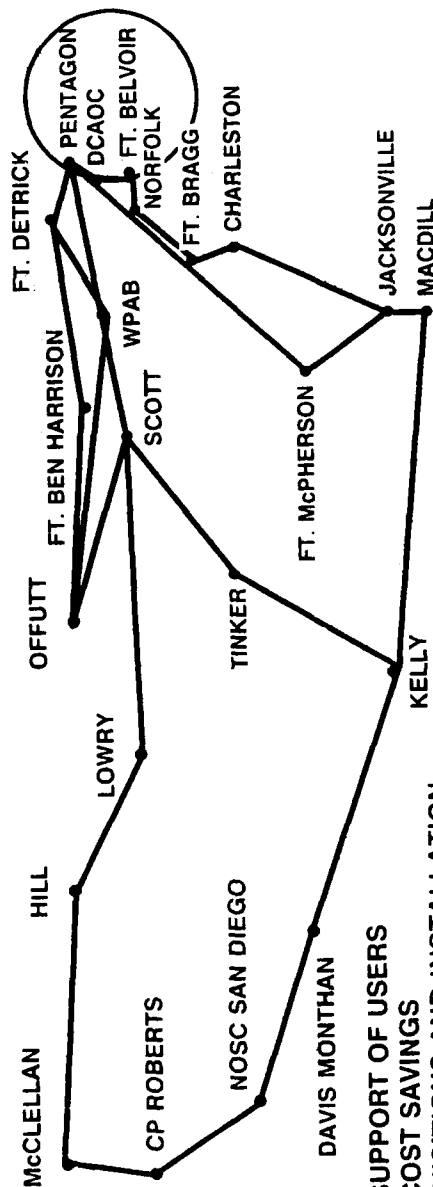
- WHY?
  - DDN WILL WORK IN THE RIGHT ORDER
  - USERS WILL KNOW WHERE THEY STAND
  - THERE ARE LIMITED RESOURCES
- WHO WILL PRIORITIZE? - OJCS/SVCS/CINCS
  - STARTED NOV 87 SCHEME
  - INTEGRATE SERVICE NEEDS THROUGH FY90
  - NETWORK/THEATER PRIORITIES
- RESULTS? MAR 88



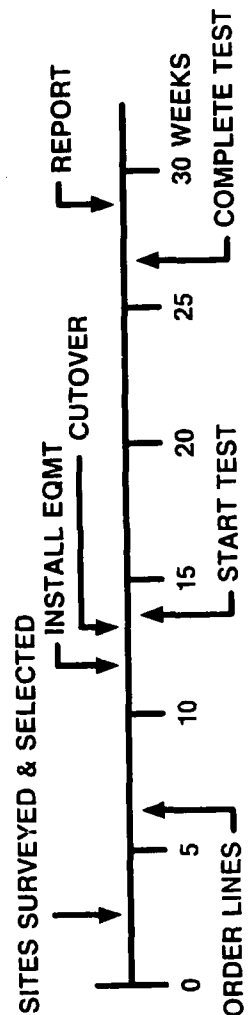
#088-CV



# DDN T-1 LINES



- GOAL
  - T1 BACKBONE SUPPORT OF USERS
  - T1 BACKBONE COST SAVINGS
  - FASTER T1 ACQUISITIONS AND INSTALLATION
  - WIDE DIVERSITY OF OPTIONS
- TIMELINE



# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-88-C-0005	DDN NETWORK DEVELOPMENT AND ENHANCEMENT	BBNCC	TBD	DEC 87 - DEC 88 1 OPTION YEAR
	<ul style="list-style-type: none"> <li>• PACKET SWITCH, TAC, GATEWAY AND MONITOR CENTER SOFTWARE DEVELOPMENT</li> <li>• HARDWARE DEVELOPMENT/ENGINEERING</li> <li>• NETWORK MODELING/ANALYSIS SUPPORT</li> <li>• DOCUMENTATION</li> </ul>			MODELING WILL BE COMPLETED IN A FUTURE CONTRACT

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600)

## CURRENT

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-85-C-0007	<p>NETWORK ACCESS COMPONENT</p> <ul style="list-style-type: none"> <li>• SYNC/ASYNC TERM ACCESS CONTROLLER</li> <li>• TERM EMULATION PROCESSOR</li> <li>• HOST FRONT-END PROCESSOR</li> </ul>	AYDIN MONITOR	\$18.1M	AUG 87 - DEC 91
				DEPLOYMENT

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-87-C-0001	DDN HARDWARE MAINTENANCE	BBNCC	\$5M	OCT 87 - OCT 88
	• WORLDWIDE DDN HARDWARE MAINTENANCE		\$5M	<u>2ND OPTION</u> OCT 88 - OCT 89 BEING CONSIDERED FOR FUTURE COMPETITION.

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-87-C-0018	DDN NETWORK ENGINEERING & SUBSCRIBER INTEGRATION SUPPORT	TELENET	\$5M	FEB 88 - JAN 89
	<ul style="list-style-type: none"> <li>• INTEGRATE SUBSCRIBER HOSTS/ TERMINALS ON DDN</li> <li>• HOST-INTERFACE TECHNICAL SUPPORT</li> <li>• DCA PACIFIC/EUROPE SUPPORT</li> </ul>			TO BE INCLUDED IN SII CONTRACT

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600)

## CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-87-C-0013	DDN CIRCUIT ENGINEERING & INSTALLATION MANAGEMENT SUPPORT	CRC	\$4.2M	JAN 88 - JAN 89
	<ul style="list-style-type: none"> <li>• PROCESS ALL DDN TELECOMMUNICATIONS SERVICE REQUEST (TSR) ACTIONS</li> <li>• SITE SURVEY, INSTALLATION MANAGEMENT OF NODES/HOSTS</li> <li>• DCA PACIFIC/EUROPE SUPPORT</li> </ul>			2 ADDITIONAL ONE YEAR OPTION PERIODS

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-87-C-0020	<p>NETWORK INFORMATION CENTER</p> <ul style="list-style-type: none"> <li>• NETWORK ACCESS SYSTEM</li> <li>• SECURITY AUDIT TRAIL</li> <li>• NETWORK STATISTICS FOR USAGE BILLING</li> <li>• USER SERVICE DESK (TERMINAL USERS)</li> </ul>	SRI	\$4M	FEB 88 - JAN 89

# MAJOR CONTRACTUAL EFFORTS

## DCS DATA SYSTEMS (B600)

### CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-86-C-0013	DDN-OPERATIONS/TECHNICAL • OPERATE NETWORK MONITOR CENTERS • INSTALL/TEST ALL DDN HARDWARE • PRE-INSTALLATION ENGINEERING • DDN TRAINING • OPERATIONS STATISTICS/ANALYSIS	BBNCC	\$16M	MAY 87 - APR 88 EXTENSION BEING NEGOTIATED WHILE COMPETITIVE ACTION IS BEING PREPARED

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<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>PERIOD OF PERFORMANCE</u>
DCA200-86-D-0005	1200 BAUD MODEM	RACAL-VADIC W/4 1-YR OPTIONS	APR 86 - APR 87

ISSUES/STATUS:

- ADJUSTMENT TO MAXIMUM QUANTITIES APPROVED BY DECCO.
- CONTRACT MODIFICATION EFFECTIVE 16 APRIL.

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) FUTURE

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
	DDN BACKBONE HARDWARE		\$9M	APR 88 - APR 89
	<ul style="list-style-type: none"> <li>• DDN PACKET SWITCHES (C-30)</li> <li>• TERMINAL ACCESS CONTROLLER</li> <li>• MONITORING CENTER (C-70)</li> </ul>			SOLE SOURCE FOR BBN-PECULIAR HARDWARE.
				OTHER HARDWARE (MODEMS, CABINETS, CABLES) ARE BEING COMPETED.

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
<ul style="list-style-type: none"> <li>• SURVEY, INSTALLATION, &amp; INTEGRATION</li> <li>• SITE SURVEY</li> <li>• EQUIPMENT STAGING</li> <li>• INSTALLATION</li> <li>• NETWORK INFORMATION CENTER</li> <li>• CIRCUIT PROVISIONING</li> </ul>	TBD	APR 88	MAR 89 - FEB 90
			W/OPTION YEARS

#088-CV

# MAJOR DCEC CONTRACTUAL EFFORTS

## CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0013	DEFENSE COMMUNICATIONS SYSTEMS SWITCHED NETWORK SYSTEM ENGINEERING AND TECHNICAL ASSISTANCE	CSC	\$2,295K	DEC '86-DEC '87
			\$1,958K	<u>1ST OPTION</u>
			\$1,481K	DEC '87-DEC '88
				<u>2ND OPTION</u>
				DEC '88-DEC '89
				TO BE RECOMPETED-ANTICIPATED ANNOUNCEMENT DATE: APR '89

- DSN TASKS:
  - SPEC AND STDS (CCS)
  - INTERFACE CRITERIA
  - IMPACT OF THE ISDN
  - TIP FOR DSN ROUTING
  - MASTER PLAN FOR TESTING
- SECURE VOICE SYSTEM TASKS:
  - RED SWITCH NETWORK ANALYSIS
  - INTERFACE AND CONTROL CRITERIA
- INTEGRATED DATA SYSTEM (IDS) TASK AREAS:
  - INFOSEC SECURITY REQUIREMENTS ANALYSIS
  - FUNCTIONAL REQUIREMENTS FOR RECONSTITUTION

#088-CV

# MAJOR DCEC CONTRACTUAL EFFORTS CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-88-C-0008	DEFENSE DATA NETWORK MONITORING CENTER	INTERMETRICS, INC.	\$424K	NOV 87 - NOV 88
	<ul style="list-style-type: none"> <li>EVALUATE APPLICABILITY OF DoD 5200.28-STD (ORANGE BOOK) CRITERIA TO MONITORING CENTER</li> <li>DEVELOP SECURITY DESIGN FOR NEXT-GENERATION MONITORING CENTER</li> </ul>			<u>1ST OPTION</u> NOV 88 - NOV 89

#088-CV

# MAJOR DCEC CONTRACTUAL EFFORTS

## FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
DATA COMMUNICATIONS PROTOCOLS	1-5M	NOV 87	JUN 88 - JUN 89
• TEST AND EVALUATION OF ISO PROTOCOLS			<u>1ST OPTION</u>
• DOD TO ISO TRANSITION ENGINEERING			JUN 89 - JUN 90
• EVLUATION OF ENHANCEMENTS TO ISO PROTOCOLS			<u>2ND OPTION</u>
• INTERNET ENGINEERING			JUN 90 - JUN 91
• UPDATE OF THE PROTOCOL LABORATORY			TO BE RECOMPETED- ANTICIPATED ANNOUNCEMENT DATE: NOV 90

#088-CV

# MAJOR DCEC CONTRACTUAL EFFORTS

## FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
INTERNET ENGINEERING TESTBED	0-1M	OCT 88	MAR 89 - APR 89
<ul style="list-style-type: none"> <li>• CONDUCT PERFORMANCE TESTS ON THE INTERNET AND ANALYZE RESULTS</li> <li>• DEVELOP IMPROVED ROUTING STRATEGIES FOR THE INTERNET SYSTEM</li> <li>• FURTHER DEVELOP ISO-DOD APPLICATION LEVEL GATEWAYS IN SUPPORT OF OSI TRANSITION</li> </ul>			

#0688-CV

## **SUMMARY**

- **OUR MISSION IS TO PROVIDE  
DoD DATA COMMUNICATIONS  
SERVICES**
- **DDN CONTINUES TO GROW  
IN RESPONSE TO DATA  
SUBSCRIBER DEMANDS**
- **SIGNIFICANCE OF INDUSTRY**
- **OUR GOAL IS TO RESPOND  
TO USER NEEDS**

#088-CV



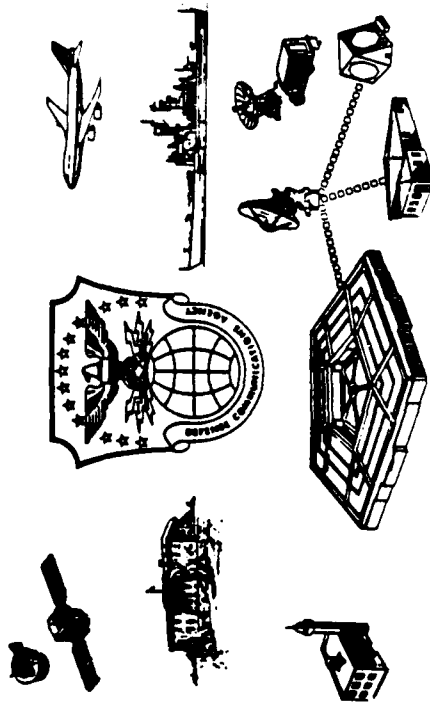
# DSCS

## DEFENSE SATELLITE COMMUNICATIONS SYSTEM

### INFORMATION BRIEFING FOR INDUSTRY DAY

#091-CV

## DEFENSE SATELLITE COMMUNICATIONS SYSTEM



## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS:

- WHO: DOD/JCS/CINC'S/MILDEPS
- WHAT MSN: SURVIVABLE AND WIDEBAND LONG-HAUL COMMUNICATIONS
- HOW: SHF SATELLITE COMMUNICATIONS
- WHY: UNIQUE AND VITAL REQUIREMENTS
- PRODUCTS: GROUND/SPACE/CONTROL SUBSYSTEMS
- DELIVERABLES: TERMINALS/SATELLITES/CONTROL EQUIPMENT/SYSTEM ENGINEERING AND TECHNICAL ASSISTANCE

## CONTRACT DATA

### CONTRACTING AGENCIES:

USA SATELLITE COMMUNICATIONS AGENCY  
USAF SPACE DIVISION

### USER COMMANDS/AGENCIESMULTI-SERVICE

POINTS OF CONTACT: COL HENRY (USA)  
COL WALKER (USAF)

### KEY LOCATIONS:

FT. MONMOUTH NJ  
LOS ANGELES AFS CA

### CONTRACT PERIOD:

FY 88-93

### DOLLAR VALUE:

\$1.73B (ARMY)  
\$1.72B (AF)

## KEY MILESTONES

DSCS OPERATIONAL SUPPORT SYSTEM/DSCS  
AUTOMATIC SPECTRUM ANALYZER (DOSS/DASA)

- RFP RELEASE: FEB 88
- CONTRACT AWARD: SEP 88
- AN/GSC-XX EARTH TERMINAL
- RFP RELEASE: JAN 90
- CONTRACT AWARD: DEC 90

GENERIC TRAINING DEVICES

- RFP RELEASE: FEB 88
- CONTRACT AWARD: SEP 88

#091-CV

AD-A195 551

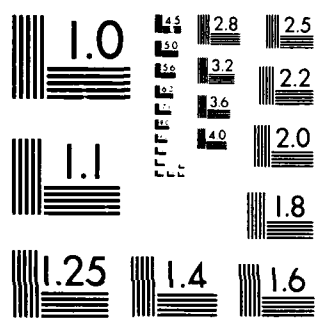
AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS  
ASSOCIATION) SYMPOSIUM (2ND... (U) DEFENSE COMMUNICATIONS  
AGENCY ARLINGTON VA APR 88

4/3

UNCLASSIFIED

F/G 25/3

NL

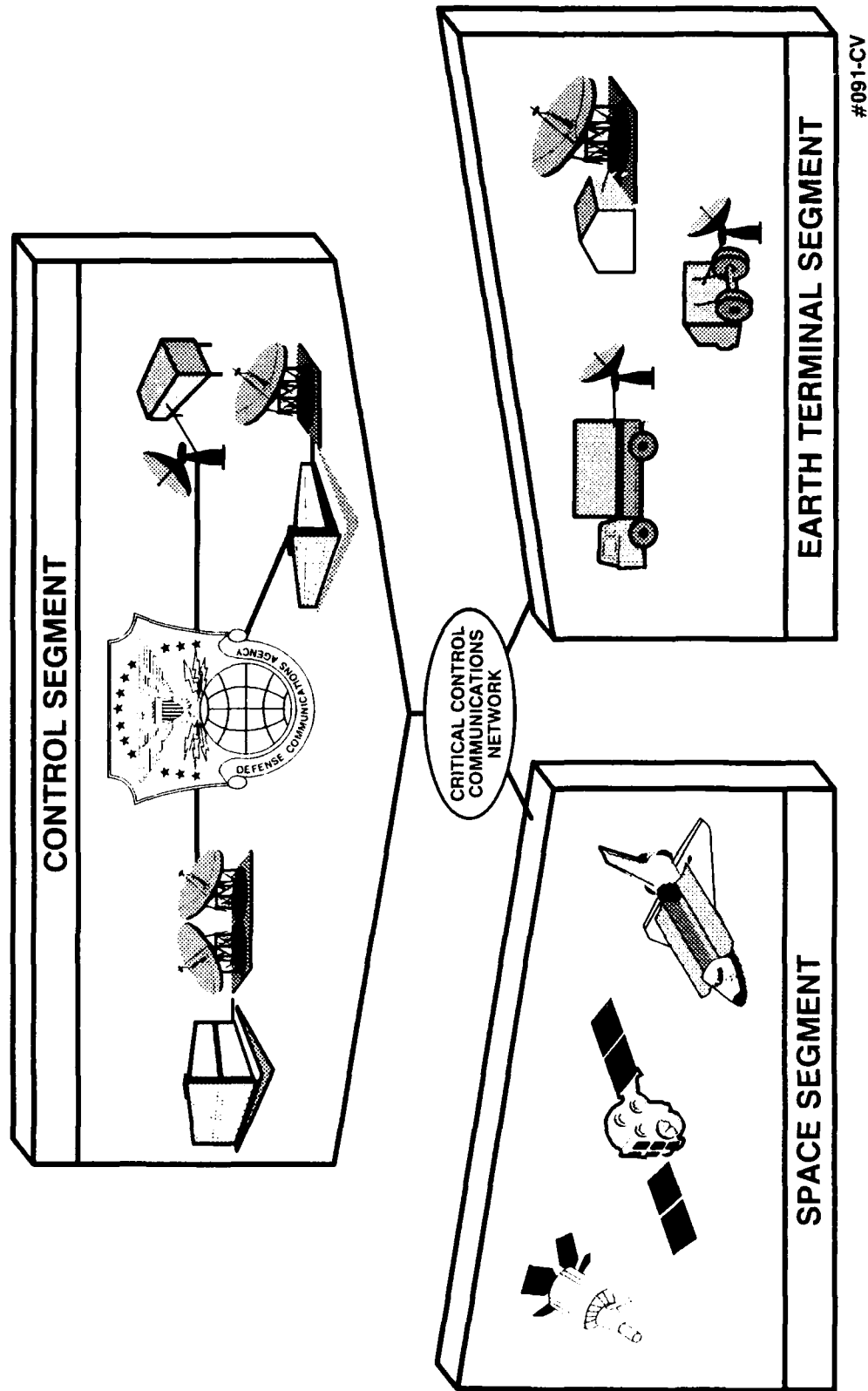


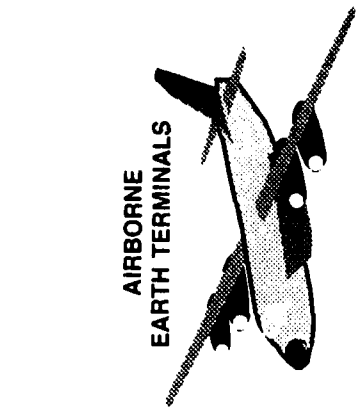
# **DSCS OVERVIEW**

- **MISSION**
- **TODAYS NETWORK**
- **UNIQUE USER REQUIREMENTS**
- **CONTRACTUAL SUPPORT**
- **SUMMARY**

#091-CV

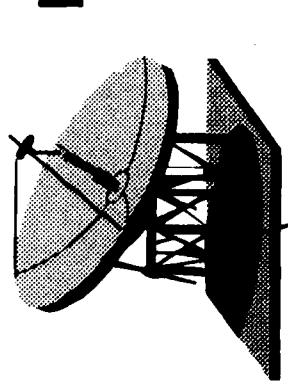
# PRIMARY SEGMENTS OF THE DSCS



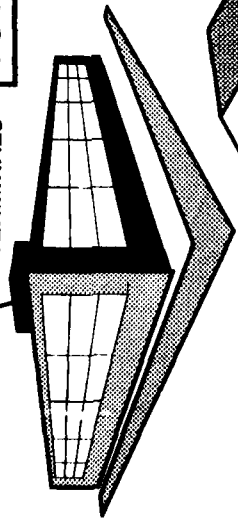


# EARTH TERMINAL SEGMENT

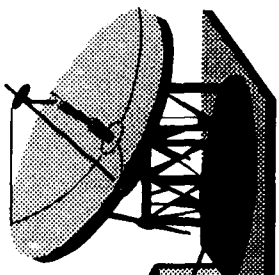
	FIXED		MOBILE	
	NOW	FY 92	NOW	FY 92
TYPES	12	8	17	20
TOTALS	126	185	227	581



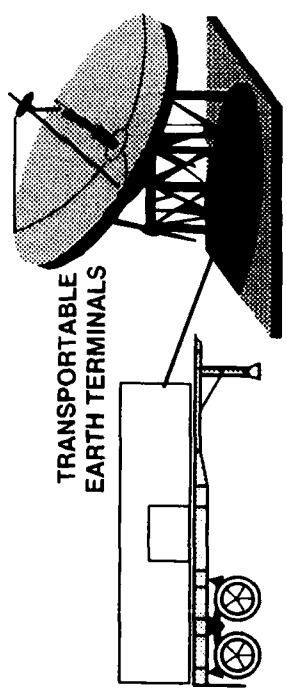
HEAVY EARTH  
TERMINALS



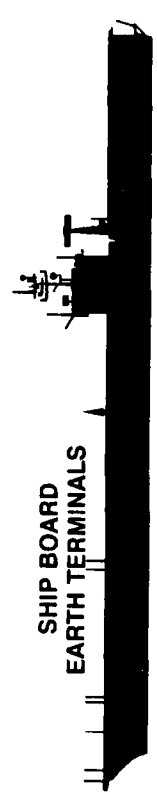
MEDIUM  
EARTH TERMINALS



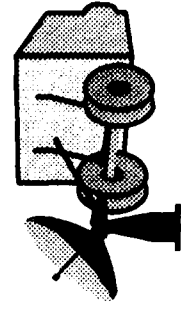
TRANSPORTABLE  
EARTH TERMINALS



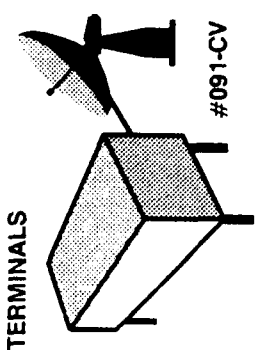
GROUND MOBILE  
EARTH TERMINALS



SHIP BOARD  
EARTH TERMINALS

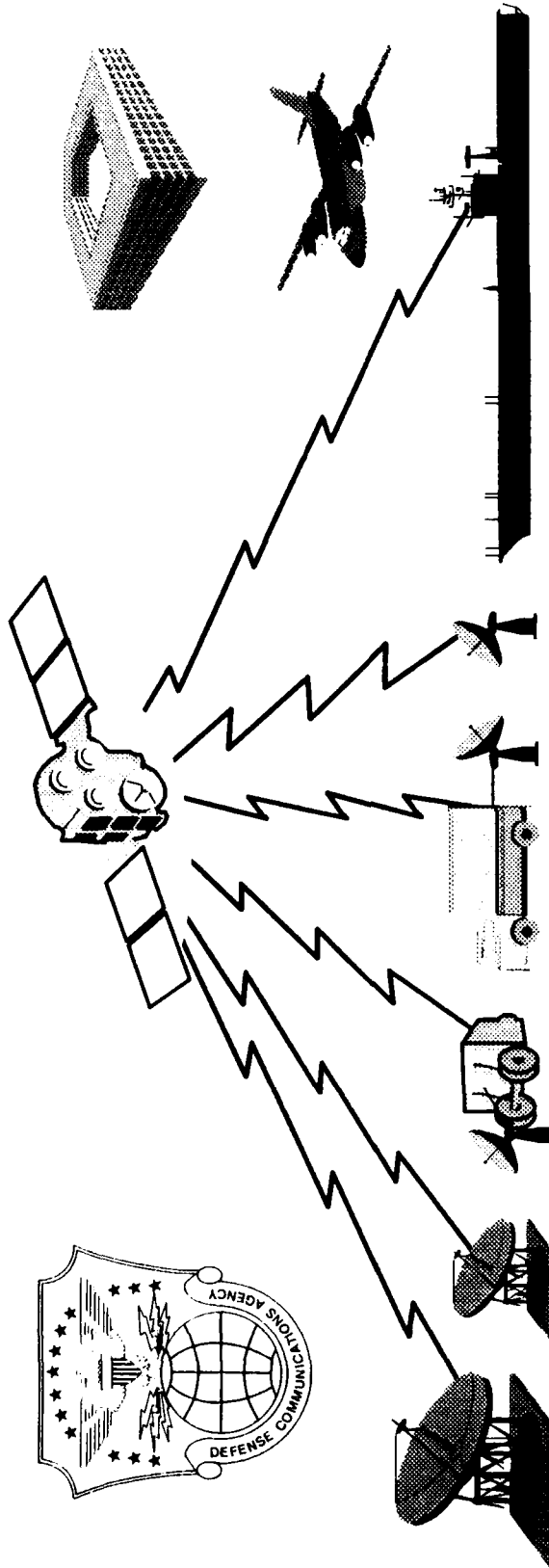


AIRBORNE  
EARTH TERMINALS



#091-CV

# DEFENSE SATELLITE COMMUNICATIONS SYSTEM



## MISSION

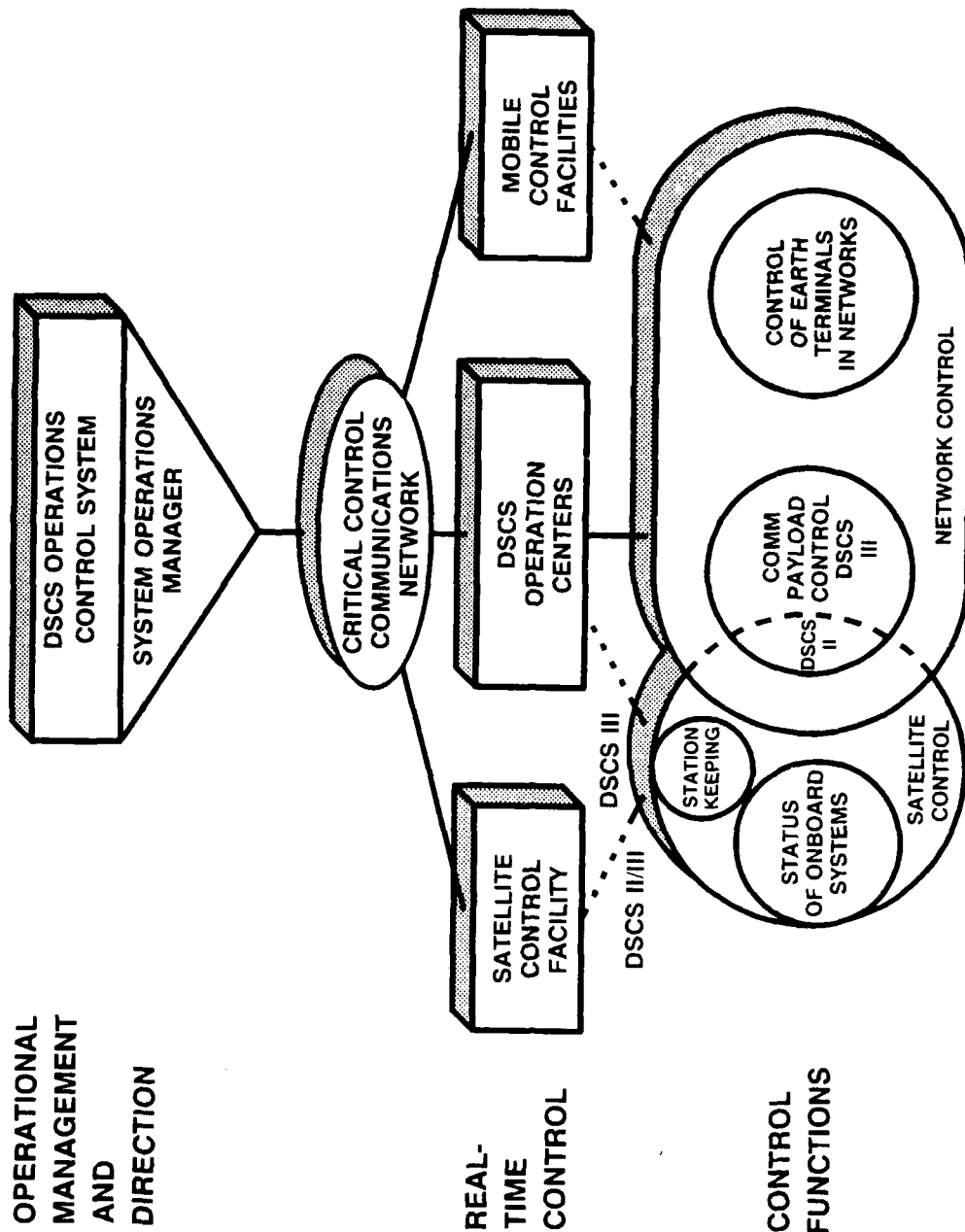
PROVIDE RESPONSIVE SUPER HIGH FREQUENCY WIDE-BAND AND ANTIJAM SATELLITE COMMUNICATIONS SUPPORTING CRITICAL NATIONAL, STRATEGIC, AND TACTICAL C3I REQUIREMENTS. SURVIVABLE DURING TRANS AND POST NUCLEAR ATTACK TO SUPPORT COMMUNICATIONS ESSENTIAL TO NATIONAL SURVIVAL

#091-CV



# CONTROL SEGMENT

OPERATIONAL  
MANAGEMENT  
AND  
DIRECTION



REAL-TIME  
CONTROL

CONTROL  
FUNCTIONS

#091-CV

## **SUMMARY**

- **OUR MISSION IS TO PROVIDE SURVIVABLE AND LONG-HAUL COMMUNICATIONS**
- **DSCS CONTINUES TO EXPAND IN RESPONSE TO USER REQUIREMENTS**
- **CONTRACTOR SUPPORT IS CRITICAL TO PROVIDE HARDWARE, SOFTWARE, AND SYSTEMS ENGINEERING/ TECHNICAL ASSISTANCE**

#091-CV

## **SECURE CONFERENCE PROJECT FEATURES**

- **SURVIVABLE**
  - **ANTI-JAM**
  - **HEMP PROTECTED**
  - **NON-SINGLE POINT SENSITIVE**
- **INTEROPERABLE**
  - **WORLDWIDE TERRESTRIAL AND SATELLITE  
CONNECTIVITY PROVIDING MAJOR END USER  
EQUIPMENT**
- **RESPONSIVE**
  - **30 SECOND CONFERENCE SET-UP TIME WITH  
5 LEVEL PREEMPTION**
- **SECURE**
  - **USER-TO-USER ENCRYPTION**

#091-CV

# **JAM RESISTANT SECURE COMMUNICATIONS PROJECT OBJECTIVES**

- **SURVIVABLE CONNECTIVITY**
  - SATELLITE TERMINALS CLOSE TO USERS
  - END-TO-END HEMP PROTECTION
  - NUCLEAR SCINTILLATION PROTECTION
- **JAM RESISTANT**
  - ECCM EQUIPMENTS
  - SATELLITE MULTIPLE BEAM ANTENNA
- **SECURE**
  - USER-TO-USER ENCRYPTION

#091-CV

# **MAJOR DSCS CONTRACTUAL EFFORTS (DEPUTY DIRECTOR TRANSMISSION SYSTEMS)**

## **FUTURE**

DESCRIPTION	VALUE RANGE	ANNOUNCEMENT	PERIOD
DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS) CONTRACTUAL TECHNICAL ASSISTANCE	APPROX. \$3M TOTAL FOR 3 CONTRACT YEARS	APR 89	OCT 89 - SEP 90 OCT 90 - SEP 91 OCT 91 - SEP 92
DEFENSE COMMUNICATIONS ENGINEERING CENTER (DCEC) SYSTEMS ENGINEERING TECHNICAL ASSISTANCE	\$6 - 10M TOTAL FOR THE 3 CONTRACT YEARS	JUL 89	MAR 90 - MAR 91 MAR 91 - MAR 92 MAR 92 - MAR 93

#091-CV

# **MAJOR DSCS CONTRACTUAL EFFORTS (DEPUTY DIRECTOR TRANSMISSION SYSTEMS)**

## **CURRENT (CONT)**

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD
DCA-100-87-C-0134	PROCURE ADDITIONAL SMART MULTI-CIRCUIT TERMINAL (SMCT) EQUIPMENT, DOCUMENT- TATION AND ILS TO SUPPORT TERRESTRIAL CRITICAL CONTROL CIRCUITS (TCCC)	STI	\$4.8 M	SEP 87 - SEP 89
DCA-100-87-C-0042	DEFENSE COMMUNICATIONS ENGINEERING CENTER (DCEC) DSCS SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE (SETA)	FEMME COMP INC	\$2,756,090 \$2,149,998 \$2,703,055	MAR 87 - MAR 88 MAR 88 - MAR 89 MAR 89 - MAR 90
DCA-100-88-C-0015	DCEC DEFENSE COMMUNICATIONS SYSTEM (DCS) SETA	AMERICAN TELEPHONE & TELEGRAPH/ HARRIS CORP.	\$711K \$765K \$784K	NOV 87 - NOV 88 NOV 88 - NOV 89 NOV 89 - NOV 90

#091-CV

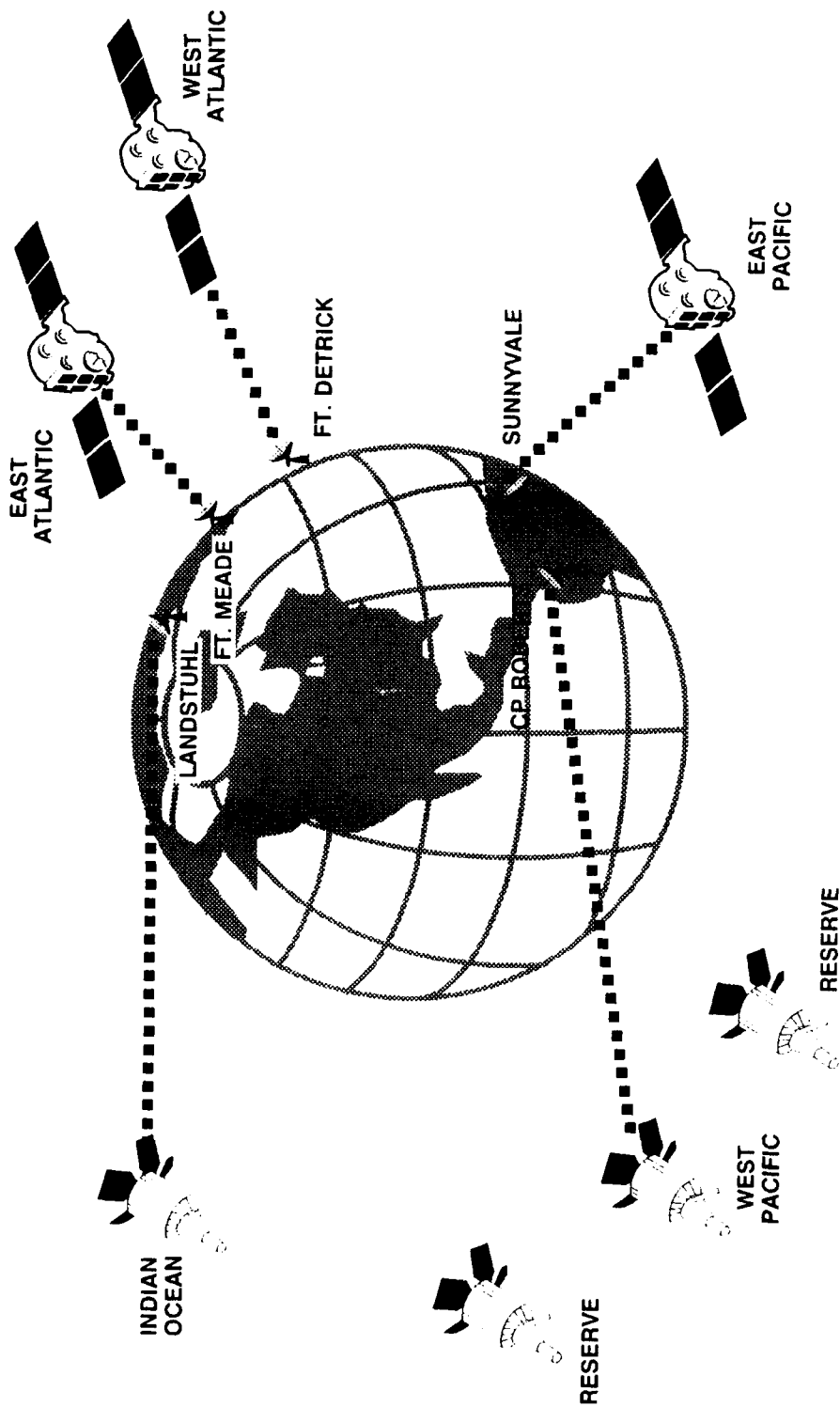
# **MAJOR DSCS CONTRACTUAL EFFORTS (DEPUTY DIRECTOR TRANSMISSION SYSTEMS)**

## **CURRENT**

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD
DCA-100-87-C-0003	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS) CONTRACTUAL TECHNICAL ASSISTANCE	GENERAL TELEPHONE & ELECTRONICS (GTE)	\$1,312,388 \$1,125,300 \$ 965,000	NOV 86 - SEP 87 OCT 87 - SEP 88 OCT 88 - SEP 89
DCA-100-86-C-0076	PROCURE NEW/UPGRADED DSCS OPERATIONAL SUPPORT SYSTEM (DOSS) EQUIPMENT AND INTEGRATED LOGISTIC SUPPORT (ILS) PACKAGE	STANFORD TELECOMMUNI- CATIONS, INC. (STI)	\$10 M	SEP 86 - MAY 88
DCA-100-87-C-XXXX	PROCURE ADDITIONAL DOSS REMOTE OPERATOR CONSOLES AND MODIFICATION OF CONSOLE SOFTWARE	RJO ENTERPRISES	\$1 M	FEB 88 - FEB 89

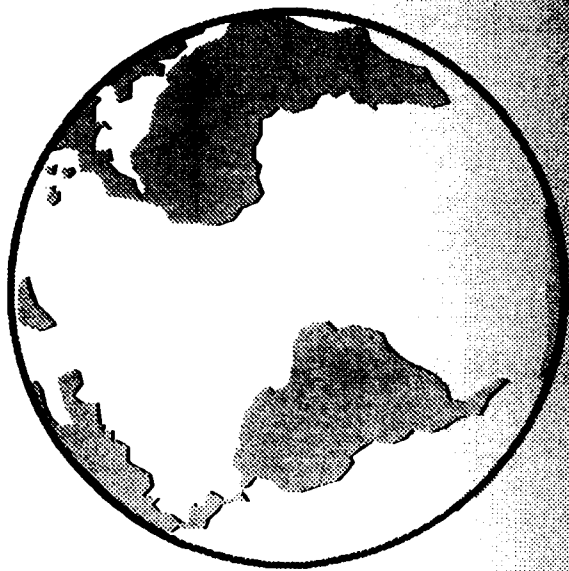
#091-CV

# DSCS SPACE SEGMENT



#091-CV





# JOINT DATA SYSTEMS SUPPORT CENTER

#058-CV

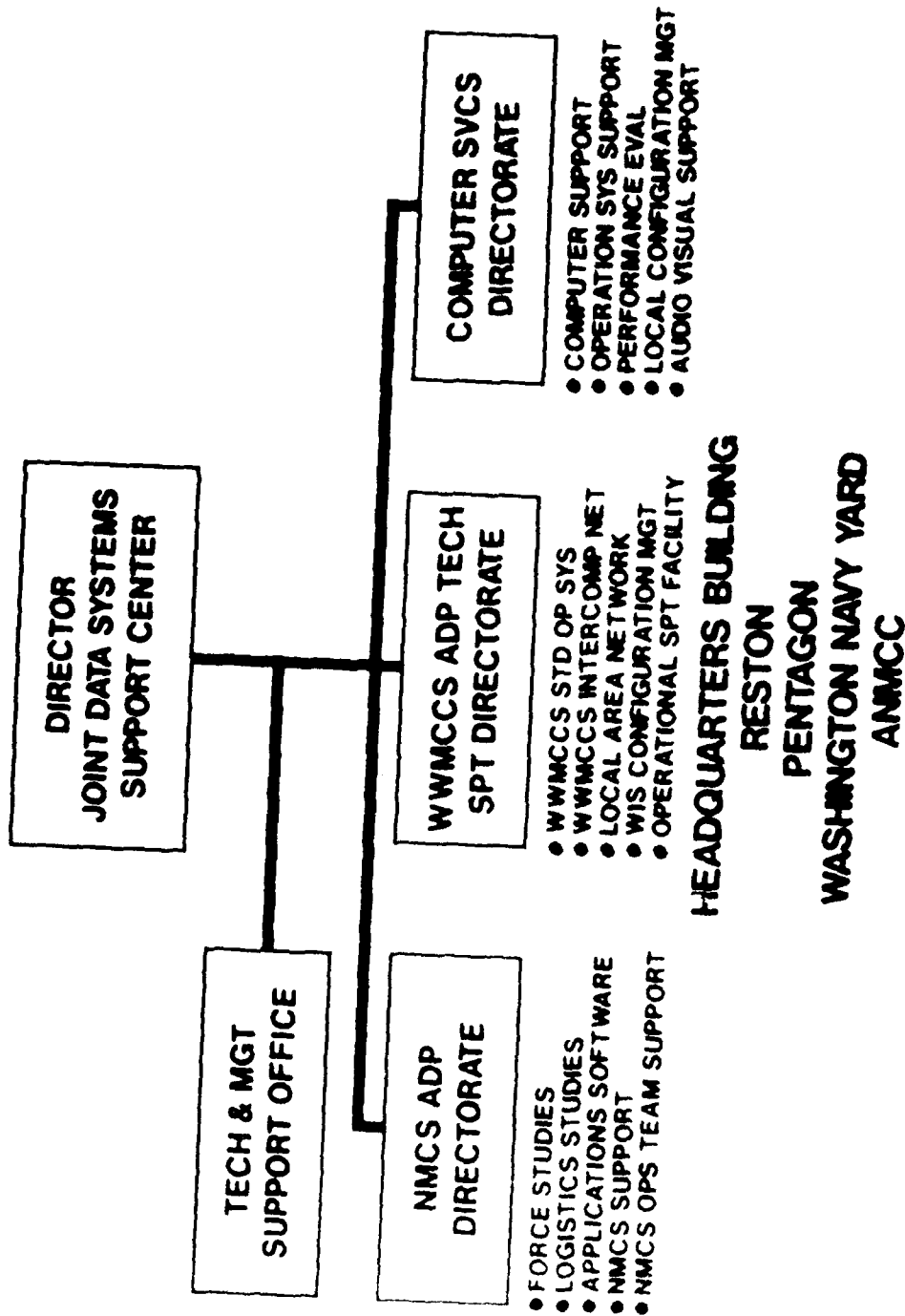
# **OVERVIEW**

- **JOINT DATA SYSTEMS SUPPORT  
CENTER**
- **FUTURE CONTRACTS**
- **SUMMARY**

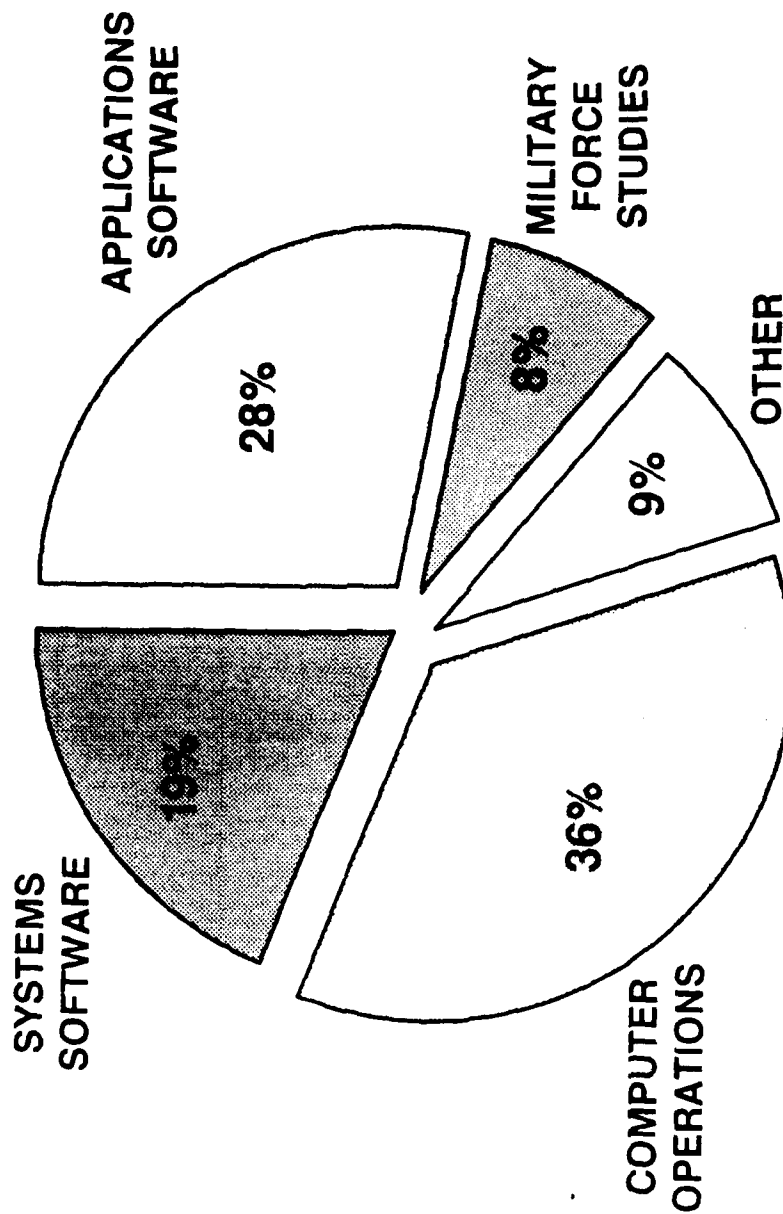
## **JDSSC MISSION**

- **PROVIDE CENTRALIZED TECHNICAL SUPPORT OF OPERATING SYSTEMS AND APPLICATIONS SYSTEMS FOR WWMCCS ADP, WIN AND OTHER ADP SYSTEMS TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ANALYTICAL AND ADP OPERATIONAL SUPPORT TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ADP SUPPORT AS SPECIFICALLY DIRECTED BY THE DIRECTOR, JOINT STAFF, TO THE WIS-JOINT PROGRAM MANAGER AND OTHER USERS**

# JDSSC ORGANIZATION



# RESOURCE ALLOCATION



#058-CV

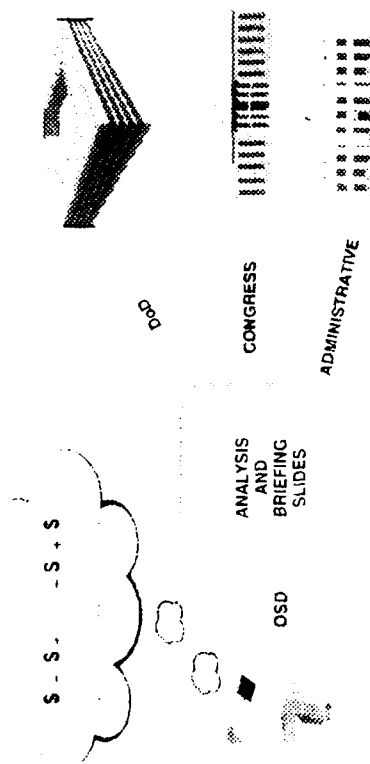
# CONTRACTORS

UNISYS	GENERAL SUPPORT
COMPUTER SCIENCES CORPORATION	GENERAL SUPPORT
HONEYWELL	GENERAL SUPPORT
POTOMAC SYSTEMS ENGINEERING	OFFICE AUTOMATION
SYSTEMS RESEARCH & APPLICATIONS CORPORATION	EXERCISE SUPPORT
MITRE	WIS TRANSITION SUPPORT
SYSTEMS APPLICATIONS INTERNATIONAL CORPORATION	STRATEGIC STUDIES
SYNERGY	LOGISTICS SYSTEM DEVELOPMENT
NAVAL POSTGRADUATE SCHOOL	LONG RANGE FORECASTING
NAVAL REGIONAL DATA AUTOMATION CENTER	RISOP/SIOP SUPPORT
7 COMM GROUP (USAF)	MULTICS
BUREAU OF CENSUS	POPULATION/INDUSTRIAL NATIONS
DEPARTMENT OF STATE	ASSESSMENT DATA
DEPARTMENT OF TRANSPORTATION	ASSESSMENT DATA
DEFENSE NUCLEAR AGENCY	VERIFICATION & VALIDATION
ETC.	
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# FUTURE CONTRACTS

#067-CV

## ANALYTIC SUPPORT TO OSD (STRATEGIC AND THEATRE NUCLEAR ANALYSIS)



## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

WHO: OSD (PA&E AND ISP)

WHAT MSN: ANALYZE STRATEGIC DEFENSIVE FORCES, THEATER NUCLEAR FORCES, C3 AND STRATEGIC SPACE SYSTEMS, ETC.

HOW: RUN AND MAINTAIN COMPUTER SIMULATION MODELS

WHY: SUPPORT DoD'S PLANNING, PROGRAMMING, AND BUDGET SYSTEM, ARMS REDUCTION CONSIDERATIONS. RESPOND TO DoD, CONGRESSIONAL, AND ADMINISTRATION INQUIRIES

PRODUCTS: SOFTWARE DEVELOPMENT AND MAINTENANCE. TECHNICAL ANALYSES, FILE DEVELOPMENT AND MAINTENANCE

DELIVERABLES: TECHNICAL REPORTS, SYSTEM DOCUMENTATION. MODERNIZED SOFTWARE, NEW COMPUTER SIMULATION MODELS, DATA BASE UPDATES

## CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMAND/AGENCY: OSD, DIR OF PROGRAM ANALYSIS & EVALUATION & ASD FOR INTERNAT'L SECURITY POLICY

POINT OF CONTACT: MS. WILSON, DCA/JDSSC/C312

KEY LOCATIONS: JDSSC, WASHINGTON AREA

CONTRACT PERIOD(S):  
JUN 85 - MAY 92

DOLLAR VALUE  
\$1.9M - \$2.4M

## KEY MILESTONES

ANALYSES OF ALTERNATIVE GROUND WAVE EMERGENCY NETWORK ARCHITECTURE: JUN 88

ANALYSIS OF TACAMO PERFORMANCE: JUN 88

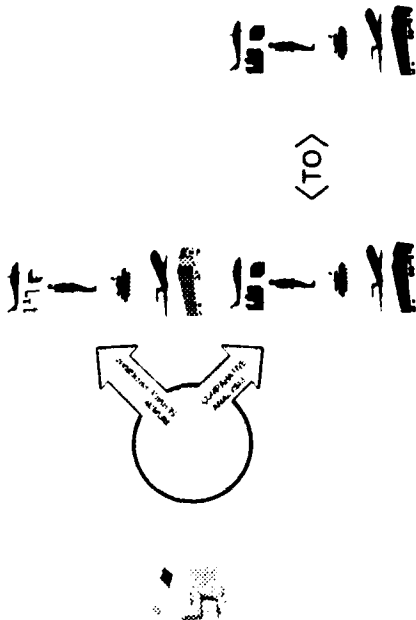
DEVELOPMENT OF A LIBRARY OF CALLABLE SUBROUTINES WHICH COMPUTE THERMAL AND NUCLEAR AFFECTS: JUN 88

RFP RELEASE: JUN 88

#067-CV



## ANALYTICAL SUPPORT TO OSD (DEFENSE ANALYSIS)



## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

WHO: OSD (PA&E), OJCS, CINC'S, DoD AGENCIES

WHAT MSN: DEFENSE ANALYSIS

HOW: COMPARATIVE ANALYSES OF U.S. AND ALLIED FORCES AGAINST THREAT FORCES BASED ON CURRENTLY PROJECTED PROGRAMS AND THREAT ESTIMATES

WHY: TO IMPROVE OSD OVERSIGHT OF MILITARY PROGRAMS

PRODUCTS: SOFTWARE DEVELOPMENT, DATA DEVELOPMENT, AND ANALYTICAL REPORTS

DELIVERABLES: TECHNICAL REPORTS, SYSTEM DOCUMENTATION, DATA BASE UPDATES, NEW OR MODIFIED SOFTWARE

## CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMAND/AGENCY: OSD, OJCS, UNIFIED & SPECIFIED COMMAND, DoD AGENCIES, SENIOR SERVICE COLLEGES

POINT OF CONTACT: MR. MARTIN, DCA/JDSSC/C302

KEY LOCATIONS: JDSSC, WASHINGTON AREA

CONTRACT PERIOD(S): FEB 91 - FEB 94  
DOLLAR VALUE  
\$2.6M - \$3.2M

## KEY MILESTONES

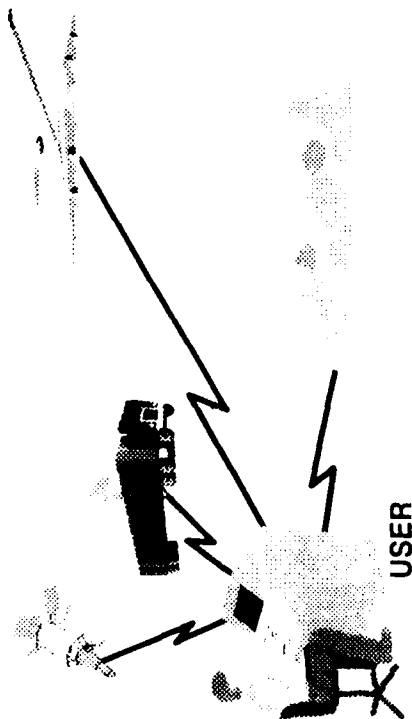
FIVE YEAR DEFENSE PLAN/DEFENSE FORCE PLANNING DATA BASE COMPARISON WITH POM INPUT: JUN 88

DEFENSE PROGRAM TRACKING SYSTEM POM UPDATE: JUN 88

RFP RELEASE: OCT 90

#067-CV

# NUCLEAR ADP SUPPORT TO OJCS



9

# FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS** OJCS, CINC'S, DoD AGENCIES

**WHO:** - NUCLEAR FORCE MONITORING AND MANAGEMENT  
- CRUISE MISSILE MISSION PLANNING SUPPORT

**WHAT MSN:** INTEGRATED DATA BASE SYSTEM

**HOW:** COMMON SYSTEM FOR COMMAND CENTERS

**WHY:** OPERATIONAL SOFTWARE

**PRODUCTS:** INTEGRATED SOFTWARE MODULES, SYSTEM DOCUMENTATION

**DELIVERABLES:**

## CONTRACT DATA

**CONTRACTING AGENCY:** DCA

**USER COMMAND/AGENCY:** OJCS, CINC'S, DoD AGENCIES

**POINT OF CONTACT:** MRS. DARBY, DCA/JDSSC/C330

**KEY LOCATIONS:** JDSSC--WASHINGTON AREA  
JDSSC--SITE R

**CONTRACT PERIOD(S):** FEB 91 - FEB 94

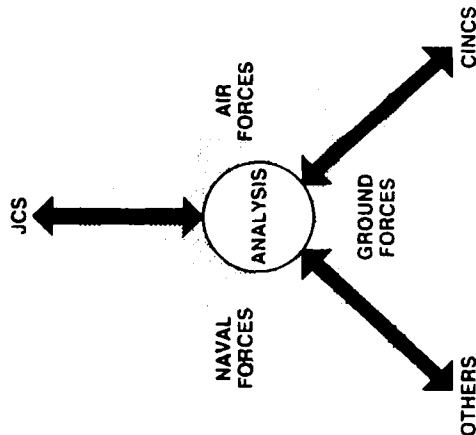
**DOLLAR VALUE**  
\$13M - \$15M

## KEY MILESTONES

**RFP RELEASE:** OCT 90

#067-CV

## MULTI-USER PROJECT



## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS:** OSD, OJCS, CINC'S, SERVICES  
**WHO:** ADP AND TECHNICAL SUPPORT FOR MULTIPLE USERS  
**WHAT MSN:** (COMMON-USER SYSTEMS)  
**HOW:** PROVIDE ANALYSIS, MODELING, DESIGN, DEVELOPMENT, COMPUTER PROGRAMMING, DATA FILE DEVELOPMENT, AD HOC OPERATIONAL SUPPORT  
**WHY:** PROVIDE OSD AND OJCS WITH INFORMATION CONCERNING MILITARY POSTURE, READINESS, AND ACTIVITIES ASSOCIATED WITH THEIR ASSIGNED MONITORING, ANALYSIS, AND PLANNING FUNCTIONS  
**PRODUCTS:** SOFTWARE DEVELOPMENT AND MAINTENANCE, SYSTEM DOCUMENTATION, TRAINING, SYSTEM INSTALLATION, SYSTEM SPECIFICATIONS AND OTHER DOCUMENTATION, TEST PLANS, SYSTEM MAINTENANCE  
**DELIVERABLES:** MODELS, DATA BASES, SYSTEMS ANALYSES, SYSTEM DOCUMENTATION, TRAINING, SYSTEM INSTALLATION, SYSTEM SPECIFICATIONS AND OTHER DOCUMENTATION, TEST PLANS, SYSTEMS MAINTENANCE

## KEY MILESTONES

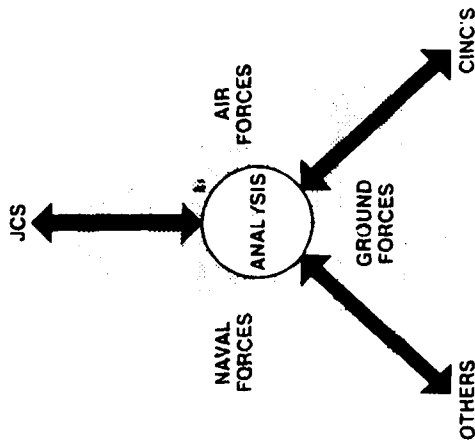
RFP RELEASE OCT 90

#067-CV

## CONTRACT DATA

**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OSD, OJCS, CINC'S, SERVICES  
**POINT OF CONTACT:** MRS. DAUL, DCA/JDSSC/C302A  
**KEY LOCATIONS:** JDSSC--WASHINGTON AREA  
**CONTRACT PERIOD(S):** FEB 91 - JAN 94  
**DOLLAR VALUE:** \$16M - \$18M

## GENERAL ADP SOFTWARE SUPPORT



## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS**  
**WHO:** OJCS, CINC'S, SERVICES  
**WHAT MSN:** GENERAL ADP SOFTWARE AND RELATED TECHNICAL SUPPORT FOR GAMING MODELS, LOGISTICS SYSTEMS, AND OPERATIONS SYSTEMS  
**HOW:** DEVELOP AND MAINTAIN COMPUTER MODELS AND SYSTEMS  
**WHY:** PROVIDE INFORMATION CONCERNING MILITARY POSTURE, READINESS, AND ACTIVITIES  
**PRODUCTS:** TECHNICAL ANALYSES, SOFTWARE DEVELOPMENT AND MAINTENANCE, FILE MAINTENANCE  
**DELIVERABLES:** UPDATED ANALYTICAL MODELS, MODIFIED LOGISTICS AND OPERATIONS SYSTEMS, USER MANUAL AND GUIDES, UPDATED DATA BASES, ANALYSES AND STUDIES

## CONTRACT DATA

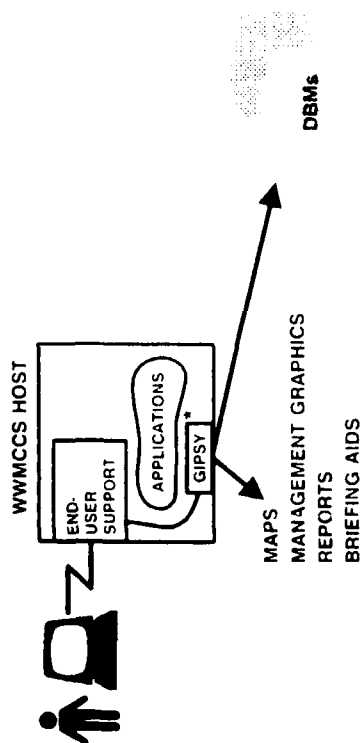
**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OJCS, CINC'S, SERVICES  
**POINT OF CONTACT:** MR. FOGARTY,  
DCA/JDSSC/C302A  
**KEY LOCATIONS:** JDSSC--WASHINGTON  
AREA  
**CONTRACT PERIOD(S):** DOLLAR VALUE:  
MAR 90 - MAR 93 \$26M - \$28M

## KEY MILESTONES

**RFP RELEASE JUL 89**

#067-CV

# WWMCCS COMPUTER GRAPHICS SUPPORT



*GIPSY-GRAPHICS INFORMATION PRESENTATION SYSTEM

## FUNCTIONAL DESCRIPTION OF SYSTEM

<b>SUPPORTS</b>	OJCS, CINC'S, SERVICES
<b>WHO:</b>	MANAGEMENT SUPPORT AND C3 OPERATIONS
<b>WHAT MSN:</b>	GENERALIZED INFORMATION ACCESS, PRESENTATION AND SECURE COMMUNICATIONS INTERFACE
<b>HOW:</b>	IMPROVE JOINT STAFF INFORMATION MANAGEMENT AND OPERATIONS
<b>WHY:</b>	GENERALIZED ADP SUPPORT UTILITIES
<b>PRODUCTS:</b>	END-USER SUPPORT TOOLS (E.G., GRAPHICS GENERATION AND DECISION SUPPORT AIDS), DBMS USER QUERY LANGUAGE, OPERATIONAL INTERFACE TO COMMUNICATIONS NETWORKS, SOFTWARE, COMMUNICATIONS MONITORS, MAINTENANCE

## CONTRACT DATA

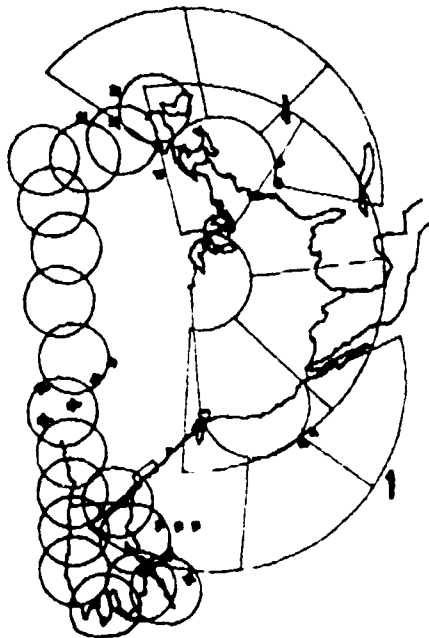
CONTRACTING AGENCY:	DCA
USER COMMAND/AGENCY:	OJCS, CINCS, SERVICES
POINT OF CONTACT:	MAJ STEEN, DCA/JDSSC/C344
KEY LOCATIONS:	35 WWMCCS SITES WORLDWIDE
CONTRACT PERIOD(S):	<u>DOLLAR VALUE</u>
	<u>AUG 90 - JUL 93</u> <u>\$5M - \$6M</u>

## KEY MILESTONES

RFP RELEASE    JAN 90

#067-CV

## AIR DEFENSE INITIATIVE



## FUNCTIONAL DESCRIPTION

### SUPPORTS

#### WHO:

OSD

#### WHAT MSN:

AIR DEFENSE INITIATIVE (ADI)

#### HOW:

DEVELOPMENT/UPDATING OF  
SIMULATION/GRAPHICS/DATA BASE SOFTWARE  
AND ANALYSIS OF WARGAMING RESULTS

#### WHY:

TO PLAN ADI ARCHITECTURE

#### PRODUCTS:

AIR DEFENSE ANALYTICAL REPORTS, GRAPHICS  
SOFTWARE, UPDATED AIR DEFENSE MODELS  
(MAINFRAME AND MICRO COMPUTER)

DELIVERABLES: SOFTWARE, DOCUMENTATION & REPORTS

## CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMAND/AGENCY: OSD, UNDER SECRETARY OF  
DEFENSE (ACQUISITION)

POINT OF CONTACT: MAJ MERRYMAN, DCA/JDSSC/C312

KEY LOCATIONS: JDSSC--WASHINGTON AREA

CONTRACT PERIOD(S)

FEB 91 - JAN 94

DOLLAR VALUE

\$2M - \$3M

## KEY MILESTONES

### ADI MODEL ENHANCEMENTS

SPACE SENSOR SUBROUTINE: MAY 88

SPACE ENGAGEMENT SUBROUTINE: JUN 88

SURFACE-TO-AIR SUBROUTINE: JUL 88

ANTISATELLITE MODEL: JUN 88


RED SATELLITE DATE BASE: MAY 88

RED/SATELLITE DATA BASE SUMMARY: OCT 88

RFP RELEASE: OCT 90

#067-CV

# OJCS INFORMATION SYSTEM REQUIREMENT, MANAGEMENT AND SUPPORT



<b>TRANSITION SUPPORT</b> - CHECKLISTS - VALIDATION - CONFIGURATION CONTROL - IMPLEMENTATION PLANNING	<b>INFORMATION MANAGEMENT</b> - STANDARDS - ACCESS - CROSS REFS - GRAPHICS	<b>DIRECTORY</b>  <b>REQUIREMENTS</b>  <b>ARCHITECTURE</b>	<b>DICTIONARY</b>
<b>MANAGEMENT SUPPORT</b> - DBMS DA TOOLS - REQ TRACKING - PROJECT MANAGEMENT	<b>DOCUMENTATION</b> - CONSOLIDATED INDEX - INSTRUCTIONS - USERS - MANAGERS - LIBRARY ACCESS	<b>SCHEDULE</b>  <b>DEVELOPMENT PLANS</b>	<b>STANDARDS</b>

## FUNCTIONAL DESCRIPTION OF SYSTEM

SUPPORTS

WHO: OJCS

WHAT MSN: MANAGEMENT PLANNING AND MODERNIZATION SUPPORT

HOW: REQUIREMENTS MANAGEMENT AND TECHNOLOGY ASSESSMENT

WHY: MAXIMIZE LIMITED RESOURCE UTILIZATION AND SUPPORT MODERNIZATION/TRANSITION

PRODUCTS: INTERGRATED DATA DICTIONARY AND DIRECTORY, DATA ELEMENTS STANDARDIZATION SUPPORT, INFORMATION ARCHITECTURE DATA BASE AND ANALYSIS TOOLS, INTERFACE CONTROL DOCUMENTS DEVELOPMENT AND MAINTENANCE, TECHNOLOGY ASSESSMENTS FOR OJCS OPERATIONAL IMPROVEMENTS

DELIVERABLES: INTEGRATED STANDARD DATA DICTIONARY DATA DIRECTORIES SYSTEM AND USER DOCUMENTATION TECHNICAL REPORTS ACTIVE CONFIGURATION MANAGEMENT SYSTEM SOFTWARE MAINTENANCE

## CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMAND/AGENCY: OJCS

POINT OF CONTACT: MR. BRAGG, DCA.JDSSC/C340

KEY LOCATIONS: JDSSC - WASHINGTON AREA

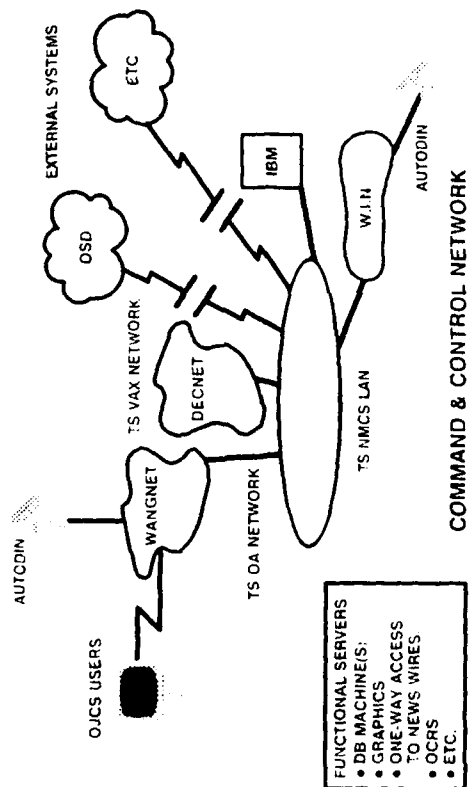
CONTRACT PERIODS(S):  
 JAN 90 - JAN 93      DOLLAR VALUE  
                                      \$9.1M - \$11.2M

## KEY MILESTONES

RFP RELEASE JUL 89

#067-CV

## HYPERCHANNEL AND INTERCONNECTIVITY



## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS**

**WHO:** OJCS

**WHAT MSN:** C², ADMINISTRATIVE, AND CLERICAL

**HOW:** INTEGRATION OF FUNCTIONS AND INTERNETTING OF NETWORKS

**WHY:** IMPROVE JOINT STAFF INFORMATION MANAGEMENT

**PRODUCTS:** HARDWARE, SYSTEM SOFTWARE, APPLICATIONS, AND SUPPORTING CAPABILITIES

**DELIVERABLES:** SYSTEM DESIGN  
ENHANCED STORAGE (E.G. DATA BASE MACHINE(S))  
GATEWAYS/BRIDGES PROTOCOL CONVERTERS  
SOFTWARE  
TECHNOLOGY ASSESSMENTS

## CONTRACT DATA

**CONTRACTING AGENCY:** DCA

**USER COMMAND/AGENCY:** OJCS

**POINT OF CONTACT:** MR. BRAGG, DCA/JDSSC/C340

**KEY LOCATIONS:** JDSSC-WASHINGTON AREA  
JDSSC-SITE R

**CONTRACT PERIOD(S):** **DOLLAR VALUE:**

**HYPERCHANNEL** SEP 88 - SEP 91 \$3.6M - \$4.2M

**INTERCONNECTIVITY** MAY 89 - APR 92 TBD

## KEY MILESTONES

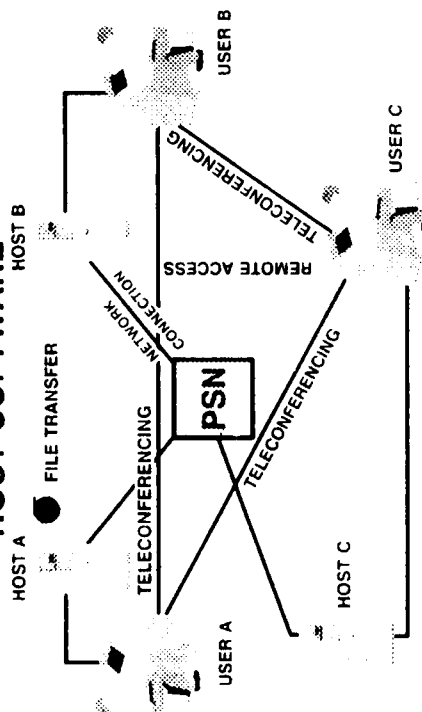
"HYPERCHANNEL" RFP RELEASE APR 88

"INTERCONNECTIVITY" RFP RELEASE SEP 88

#067-CV



# WWMCCS INTERCOMPUTER NETWORK (WIN) HOST SOFTWARE



## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

WHO: OJCS, SERVICES, CINC'S, DoD AGENCIES  
 WHAT MSN: WORLD WIDE MILITARY COMMAND AND CONTROL  
 HOW: MAINTENANCE AND ENHANCEMENT OF WIN HOST SOFTWARE  
 WHY: MAINTAIN MILITARY C2 COMMUNICATIONS  
 PRODUCTS: SOFTWARE MAINTENANCE AND ENHANCEMENT  
 SITE ASSISTANCE FOR INSTALLATION, TESTING AND TRAINING  
 CONSULTATION SUPPORT FOR NEW PROTOCOL SUITES  
 COMMUNICATIONS TEST PLANNING SUPPORT  
 IBM OPERATOR SUPPORT

DELIVERABLES: UPDATED SOFTWARE/SYSTEM AND USER DOCUMENTATION  
 TECHNICAL REPORTS  
 TEST PACKAGES

## CONTRACT DATA

CONTRACTING AGENCY: DCA  
 USER COMMAND/AGENCY: OJCS, SERVICES, CINC'S,  
 DoD AGENCIES  
 POINT OF CONTACT: LT SOUTH, DCA/JDSSC/C411  
 KEY LOCATIONS: JDSSC-WASHINGTON AREA  
 CONTRACT PERIOD(S):  
 OCT 88 - SEP 91  
 DOLLAR VALUE  
 \$4.7M - \$11.3M

## KEY MILESTONES

RFP RELEASE JUN 88

#067-CV

# WWMCCS INTERCOMPUTER NETWORK/WWMCCS INFORMATION SYSTEM TEST AND EVALUATION SUPPORT

FIELD  
PRODUCTS

TEST  
REPORTS



TEST  
TOOLS



TEST  
PLANS



MANAGEMENT  
REPORTS



## CONTRACT DATA

CONTRACTING AGENCY: DCA  
 USER COMMAND/AGENCY: OJCS, SERVICES, CINC'S, NATO  
 POINT OF CONTACT: MR. DIEHL, DCA/JDSSC/C441  
 KEY LOCATIONS: JDSSC, WASHINGTON AREA  
 CONTRACT PERIOD(S):  
 MAR 90 - MAR 93  
 DOLLAR VALUE  
 \$3.0M - \$4.5M

# FUNCTIONAL DESCRIPTION OF SYSTEM

## SUPPORTS

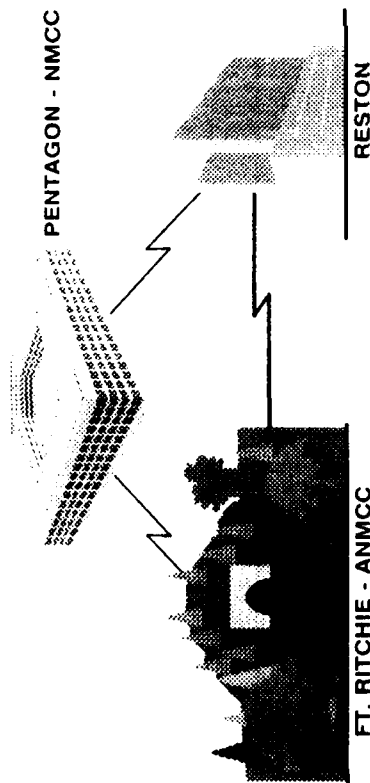
WHO: OJCS, SERVICES, CINC'S, NATO  
 WHAT MSN: TEST/EVALUATION END-USER NETWORKING PRODUCTS  
 HOW: EVOLVING NETWORK TESTS  
 WHY: QUALITY ASSURANCE OF USER INTERFACE/SUBNET  
 PRODUCTS: NETWORK TESTING AND END-USER IV&V  
 DELIVERABLES: OPERATIONAL SIMULATION  
 NETWORK CALIBRATION  
 TEST CRITERIA/FUNCTIONALITY  
 IV&V PLANS AND REPORTS  
 TEST PROGRAM MANAGEMENT PLANS

## KEY MILESTONES

RFP RELEASE JUN 89

#067-CV

## GENERAL SYSTEM SOFTWARE SUPPORT



## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS**  
**WHO:** OJCS, OSD  
**WHAT MSN:** ADP OPERATING SYSTEMS  
**HOW:** MAINTAIN IN A READY STATE ALL JDSSC OPERATIONAL COMPUTER OPERATING SYSTEMS  
**WHY:** ESSENTIAL TO USE OF COMPUTERS  
**PRODUCTS:** COMPUTER OPERATING SYSTEMS  
**DELIVERABLES:** TECHNICAL REPORTS

## CONTRACT DATA

**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OJCS, OSD  
**POINT OF CONTACT:** MR. J. FOGARTY, DCA/JDSSC /C302A  
**KEY LOCATIONS:** JDSSC-WASHINGTON AREA  
 JDSSC-SITE R  
**CONTRACT PERIOD(S):** DOLLAR VALUE  
 FEB 90 - FEB 93 \$6.1M - \$7.9M

## KEY MILESTONES

**RFP RELEASE** JUN 89  
**BEGIN SUPPORT FOR 4 COMPUTERS BY:** FY89  
**BEGIN SUPPORT FOR 4 COMPUTERS BY:** FY90  
**BEGIN SUPPORT FOR 6 COMPUTERS BY:** FY91  
**BEGIN SUPPORT FOR 4 COMPUTERS BY:** FY92  
**BEGIN SUPPORT FOR 3 COMPUTERS BY:** FY93  
 #067-CV

## TEMPEST TESTING

## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

#### WHO:

OJCS

#### HOW:

CONDUCTING TEMPEST ONSITE TESTING OF COMPUTER SYSTEMS, EQUIPMENT AND FACILITIES

#### OBJECTIVE:

TO DETERMINE IF THE TEMPEST PROFILES OF THE ITEMS TESTED ARE COMPLIANT WITH APPLICABLE DIRECTIVES ON THE CONTROL OF COMPROMISING INFORMATION

#### WHY:

REQUIRED BY POLICY DIRECTIVES, JCS PUBLICATION 22 ON WWMCCS COMMUNICATION SECURITY

#### DELIVERABLES: TECHNICAL TEST REPORTS

## CONTRACT DATA

CONTRACTING AGENCY:

DCA

OTHER AGENCIES:

OJCS

POINT OF CONTACT:

MR. PHIL JENSEN,  
DCA/JDSSC/C752

KEY LOCATIONS:

JDSSC-WASHINGTON AREA  
JDSSC-SITE R

CONTRACT PERIOD(S):

JUL 90 - JUL 93

DOLLAR VALUE

\$1.8M - \$2.6M

## KEY MILESTONES

2-STORY HEMP FACILITY

MARCH 88

NMCC PERIMETER TEST

APRIL 88

RFP RELEASE

OCT 89

#067-CV

# SUMMARY COMPETITIVE CONTRACTS

TITLE	APPROXIMATE DOLLAR AMOUNT	ANTICIPATED RFP RELEASE DATE
ANALYTICAL SUPPORT TO OSD (STRATEGIC AND THEATER NUCLEAR ANALYSIS)	1.9-2.4M	JUN 88
ANALYTICAL SUPPORT TO OSD (DEFENSE ANALYSIS)	2.6-3.2M	OCT 90
NUCLEAR ADP SUPPORT TO OJCS	13.0-15.0M	OCT 90
MULTI-USER PROJECT	16.0-18.0M	OCT 90
GENERAL ADP SOFTWARE SUPPORT	26.0-28.0M	JUL 89
WWMCCS COMPUTER GRAPHICS SUPPORT	5.0-6.0M	JAN 90
AIR DEFENSE INITIATIVE	2.0-3.0M	OCT 90
OJCS INFORMATION SYSTEM REQUIREMENT, MANAGEMENT AND SUPPORT	9.1-11.2M	JUL 89
HYPERCHANNEL AND INTERCONNECTIVITY	3.6-4.2M TBD	APR 88 SEP 88
WWMCCS INTERCOMPUTER NEWTORK (WIN) HOST SOFTWARE	4.7-11.3M	JUN 88
WWMCCS INTERCOMPUTER NETWORK/WWMCCS INFORMATION SYSTEM TEST AND EVALUATION SUPPORT	3.0-4.5M	JUN 89
GENERAL SYSTEM SOFTWARE SUPPORT	6.1-7.9M	JUN 89
TEMPEST TESTING	1.8-2.6M	OCT 89

#067-CV

## SMALL AND DISADVANTAGED BUSINESS

TITLE	APPROXIMATE DOLLAR AMOUNT	ANTICIPATED RFP RELEASE DATE
WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM SOFTWARE AND EVALUATION	1.4 - 1.6 M	JAN 90
COMPUTER PERFORMANCE EVALUATION	0.3 - 0.5 M	FEB 90
GRAPHICS SUPPORT	3.6 - 4.4 M	JAN 90
JOINT STAFF SUPPORT INFORMATION SYSTEM	3.3 - 3.9 M	JUN 88
WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM INFORMATION SYSTEM CONFIGURATION MANAGEMENT	1.7 - 2.3 M	MAR 89
JOINT MISSION APPLICATIONS SOFTWARE INTEGRATED SYSTEM TEST	1.0 - 1.4 M	JAN 91
STRATEGIC FORCES ANALYSIS	0.3 - 0.5 M	JUN 91
NUCLEAR WEAPONS TARGETING POLICY	0.3 - 0.5 M	JUN 90

#067-CV

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
*DCA100-86-C-0056	<u>ANALYTICAL SUPPORT TO OSD</u>			
	<u>STRATEGIC AND THEATRE NUCLEAR ANALYSIS</u>			
	o STRATEGIC CONNECTIVITY	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	\$1.8M	JUN 86 - MAY 89
	o STRATEGIC DEFENSE			
	o DEFENSE & SPACE NEGOTIATIONS			
	o ARMS CONTROL ISSUES			
	o BLUE DATA BASE SUPPORT			
	o RED TARGET DATA BASE SUPPORT			
	o STRATEGIC C3 DATA BASE SUPPORT			

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 88

CONTRACT PERIOD(S): JUN 89 - MAY 92

DOLLAR VALUE: \$1.9M - 2.4M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

CONTRACT NUMBER	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
*DCA100-88-C-0032	ANALYTICAL SUPPORT TO OSD			
	DEFENSE ANALYSIS			
	o SUPPORT TO PROGRAM, ANALYSIS AND EVALUATION	UNISYS	\$3M	FEB 88 - FEB 9
	- GLOBAL FORCE TRENDS DATA BASE			
	- DEFENSE ANALYSIS MANAGEMENT INFORMATION SYSTEM			
	- DEFENSE PLANNING QUESTIONNAIRE FOR NATO			
	- DEFENSE PROGRAM TRACKING SYSTEM			

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 90

CONTRACT PERIOD(S): FEB 91 - FEB 94

DO LAR VALUE: \$2.6M - 3.2M



MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

CONTRACT NUMBER	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
*DCA100-88-C-0034	NUCLEAR ADP SUPPORT TO OJCS	UNISYS	\$14M	FEB 88 - FEB 91
	o NUCLEAR PLANNING & EXECUTION SYSTEM			
	TECHNICAL & SOFTWARE SUPPORT			
	- FIXED GROUND			
	- TRANSPORTABLE AND MOBILE NUCLEAR PLANNING & EXECUTION SYSTEM (NPES)			
	- COMMUNICATIONS SUBSYSTEM			
	o THEATER MISSION PLANNING SYSTEM SUPPORT			
	o NUCLEAR PLANNING SYSTEM SUPPORT			
	o CONVENTIONAL SUPPORT SYSTEM			

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 90

CONTRACT PERIOD(S): FEB 91 - FEB 94

DOLLAR VALUE: \$13M - 15M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

CONTRACT NUMBER	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA 100-88-C-0032	MULTI-USER PROJECT	UNISYS	\$17M	FEB 88 - JAN 9
	o DEFENSE SYSTEMS ANALYSIS			
	o WORLDWIDE ENVIRONMENTAL SUPPORT SYSTEM			
	o STATUS OF RESOURCES AND TRAINING SYSTEM			
	o FOREIGN MEDIA ANALYSIS SYSTEM			
	o NMCS INFORMATION DISPLAY SYSTEM			
	o JOINT MANPOWER DISTRIBUTION SYSTEM			
	o GENERAL PURPOSE SYSTEMS QUALITY ASSURANCE			
	o NMCS AUTOMATED CONTROL EXECUTIVE			

TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 90

CONTRACT PERIOD(S): FEB 91 - JAN 94

DOLLAR VALUE: \$16M - 18M

MAJOR JDSSC CONTRACTUAL EFFORTS  
(CURRENT)

CONTRACT NUMBER	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
*DCA100-87-C-0046	GENERAL ADP SOFTWARE SUPPORT	CSC	\$27.4M	MAR 87 - MAR 9
	o MODELING & SIMULATION SUPPORT			
	- STRATEGIC WARGAMES ANALYSES			
	- TACTICAL WARFARE MODEL			
	- NUCLEAR WEAPONS ALLOCATION MODELS			
	- STRATEGIC DEFENSE INITIATIVES			
	LOGISTICS & OPERATIONS SUPPORT			
	- JOINT OPERATIONS PLANNING SYSTEM			
	- LOGISTICS SUPPORT - LOGISTICS READINESS CENTER			
	- LOGISTICS SUPPORT - AMMUNITION			
	- LOGISTICS SUPPORT - PETROLEUM			
	- LOGISTICS SUPPORT - CIVIL ENGINEERING			
	o MOBILITY STUDIES & ANALYTICAL STUDIES			
	- SPECIAL MOBILITY STUDIES			
	- JOINT OPERATIONS PLANNING & EXECUTION SYSTEM			
	- MODERN AIDS TO PLANNING			
	o MULTI-USER SUPPORT			
	- SINGLE INTEGRATED DAMAGE ANALYSIS CAPABILITY			
	- J-5 FORCE STRUCTURE INFORMATION DISPLAY SYSTEM			
	- INTERNATIONAL NEGOTIATIONS SYSTEM			
	- JOINT RECONNAISSANCE INFORMATION SYSTEM			

*TO BE RECOMPLETED

ANTICIPATED ANNOUNCEMENT DATE: JUL 89

CONTRACT PERIOD: MAR 90 - MAR 93

DOLLAR VALUE: \$26M - \$28M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0064	WWMCCS COMPUTER GRAPHICS SUPPORT o MAINTENANCE & ENHANCEMENT OF: - GRAPHIC INFORMATION PRESENTATION SYSTEM - TERRA PLOT - GENERALIZED DATA REPORTS SYSTEM - GIPSYMATE	Computer Based Systems Incorporated	\$5.1M	AUG 87 - JUL 90

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JAN 90

CONTRACT PERIOD(S): AUG 90 - JUL 93

DOLLAR VALUE: \$5M - 6M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
AIR DEFENSE INITIATIVE	\$2M - 3M	OCT 90	FEB 91 - JAN 94
<ul style="list-style-type: none"> <li>DEVELOP AND UPDATE SIMULATION/GRAPHICS DATA BASE SOFTWARE</li> <li>ANALYZE WARGAMING RESULTS</li> </ul>			

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
OJCS INFORMATION SYSTEM REQUIREMENT, MANAGEMENT AND SUPPORT	\$9.1M - 11.2M	JUL 89	JAN 90 - JAN 93
<ul style="list-style-type: none"> <li>o MANAGEMENT PLANNING AND MODERNIZATION SUPPORT</li> <li>- DATA BASE MANAGEMENT</li> <li>- INTERFACE CONTROL DOCUMENTS</li> <li>- TRANSITION PLANNING TOOLS</li> <li>- MIS COMPONENTS</li> <li>- ACTIVE CONFIGURATION MANAGEMENT SYSTEM</li> </ul>			

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
HYPERCHANNEL	\$3.6M - 4.2M	APR 88	SEP 88 - SEP 91
<ul style="list-style-type: none"> <li>o MAINTAIN INSTALLED HARDWARE/SOFTWARE BASE</li> <li>o ENHANCE CONNECTIVITY WITH IBM HOST</li> <li>o IMPLEMENT DOD STANDARD PROTOCOLS</li> <li>o ENHANCE END-USER INTERACTIVE CAPABILITY</li> </ul>			
INTERCONNECTIVITY	TBD	SEP 88	MAY 89 - APR 92
<ul style="list-style-type: none"> <li>o END-TO-END SECURITY RISK ANALYSIS</li> <li>o DESIGN/IMPLEMENT INTEGRATED OJCS INFORMATION SYSTEM (OIS)</li> <li>o DEFINE AND IMPLEMENT OIS INFORMATION ARCHITECTURE</li> <li>o PROVIDE JOINT STAFF CORPORATE DATA BASE</li> <li>o DEVELOP PROTOCOL TRANSLATIONS</li> <li>o CENTRALIZE AUTHENTICATION AND CONTROL</li> <li>o END-END PERFORMANCE MONITORING</li> </ul>			

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
<u>WWMCCS INTERCOMPUTER NETWORK (WIN) HOST SOFTWARE</u>				
*DCA 100-85-C-0002	<ul style="list-style-type: none"> <li>WWMCCS INTERCOMPUTER NETWORK SOFTWARE MAINTENANCE &amp; ENHANCEMENT SUPPORT</li> <li>ON-SITE ADP TECHNICAL SUPPORT AT WIN SITES TO ASSIST IN INSTALLATION AND TESTING</li> </ul>	COMPUTER SCIENCES CORPORATION	\$6.8M	NOV 84 - SEP 88

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 88

CONTRACT PERIOD(S): OCT 88 - SEP 91

DOLLAR VALUE: \$4.7M - 11.3M



MAJOR JDSSC CONTRACTUAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
*WWMCCS INTERCOMPUTER NETWORK/WWMCCS INFORMATION SYSTEM TEST AND EVALUATION SUPPORT				
DCA 100-87-C-0031	<ul style="list-style-type: none"> <li>0 WIN END-USER OPERATIONAL TEST AND EVALUATION</li> <li>0 DEFINITION AND DEVELOPMENT OF WIN, LAN, AND WIS/DDN TEST AND EVALUATION TOOLS</li> <li>0 REVIEW, ANALYSIS, AND EVALUATION OF WIN CONCEPTS AND CONFIGURATIONS</li> <li>0 WIN USER FUNCTIONALITY DEFINITION REPORTS</li> <li>0 WIN USER TRAINING</li> </ul>	UNISYS	\$5.1M	MAR 87-MAR 90

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 89  
CONTRACT PERIOD(S): MAR 90-MAR 93  
DOLLAR VALUE: \$3M - 4.5M

MAJOR JDSSC CONTRACTUAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
<u>GENERAL SYSTEM SOFTWARE SUPPORT</u>				
*JCA 100-85-C-0040	0 SYSTEM SOFTWARE MODIFICATION, TESTING, IMPLEMENTATION, DOCUMENTATION	COMPUTER SCIENCES CORPORATION	\$6M	FEB 87-FEB 90
	0 SYSTEM SOFTWARE SUPPORT FOR IBM, DEC, HONEYWELL, DATA GENERAL, AND WANG OPERATING SYSTEMS			
	0 ADP SECURITY RISK ANALYSIS			
	0 TEST, EVALUATION, INSTALLATION IMPLEMENTATION, AND MAINTENANCE OF ADP SECURITY SOFTWARE			

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 89  
 CONTRACT PERIOD(S): FEB 90-FEB 93  
 DOLLAR VALUE: \$6.1M - 7.9M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
<u>TEMPEST TESTING</u>				
*DCA 100-87-C-TBD	0 CONDUCTION-SITE TEMPEST TESTING	HONEYWELL INFORMATION SYSTEMS	\$3M	APR 87 - APR 90

*IO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 89  
 CONTRACT PERIOD(S): JUL 90 - JUL 93  
 DOLLAR VALUE: \$1.8M - 2.6M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
<u>COMPUTER PERFORMANCE EVALUATION</u>				
*DCA 100-87-C-TBD	0 MAINTENANCE OF SOFTWARE PERFORMANCE MONITOR (SPM) LOCAL AREA NETWORK PERFORMANCE REPORTING SYSTEM. COMMUNICATIONS PROCESSOR SIMULATOR	ADVANCED TECHNOLOGY SYSTEMS	\$3M	FEB 87 - FEB 90
	0 DEVELOPMENT AND ENHANCEMENT OF COMPUTER PERFORMANCE EVALUATION TOOLS			

*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUL 89  
CONTRACT PERIOD(S): FEB 90 - FEB 93  
DOLLAR VALUE: \$2M - 4M

MAJOR JDSSC CONTRACTUAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
<u>ADP HARDWARE MAINTENANCE</u>				
VARIOUS	ADP HARDWARE MAINTENANCE FOR EQUIPMENT SUCH AS WANG, IBM, VAX, DATA GENERAL (MAJOR MAINTENANCE AREAS)	<ul style="list-style-type: none"> <li>o AUTOMATED DATA MANAGEMENT, INC. (8 [A] CONTRACT)</li> <li>o DATA GENERAL</li> <li>o TELOS (SMALL BUSINESS)</li> <li>o VAX</li> <li>o NATIONAL ADVANCED SYSTEMS</li> <li>o EATON CORPORATION</li> </ul>	\$7M	various

*MAJORITY AWARDED BY OTHER THAN  
DCA CONTRACTING OFFICE

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
<u>TEST, EVALUATION AND DISTRIBUTION SUPPORT</u>				
*DCA 100-87-C-0018	0 TEST, EVALUATION AND DISTRIBUTION OF SYSTEM SOFTWARE	ADVANCED TECHNOLOGY SYSTEMS	\$4.8M	JAN 87 - JAN 90
	0 ESTABLISH SUPPLEMENTAL GUIDELINES FOR SOFTWARE DEVELOPMENT AND SYSTEM OPERATION			
	0 DATA BASE ANALYSIS			
	0 SOFTWARE SUPPORT			

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)  
(CONTINUED)

- DEVELOP CONVERSION AIDS
- DEVELOP, MAINTAIN AND DOCUMENT TEST PACKAGES
- PROVIDE INSTALLATION SUPPORT
- MAINTAIN PRODUCT INVENTORIES

TO BE RECOMPETED

*100% SMALL BUSINESS SET ASIDE

TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUL 90  
CONTRACT PERIOD(S): JAN 90 - JAN 93  
DOLLAR VALUE: \$4M - \$6M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
DEFENSE DATA NETWORK INTERFACE ADAPTOR	\$4M - \$5M	JUL 88	JUL 89 - JAN 91
<ul style="list-style-type: none"> <li>0 DEVELOP ADAPTOR TO CONNECT REMOTE TERMINALS AND REMOTE WWMCCS PROCESSORS TO DDN</li> <li>- SUPPORT DOD STANDARD PROTOCOL SUITE</li> <li>- HARDWARE AND SOFTWARE DEVELOPMENT</li> <li>- MULTI USER ENVIRONMENT</li> <li>- USER DOCUMENTATION AND TRAINING REQUIRED</li> </ul>			
0 POST DEVELOPMENT/DEPLOYMENT SUPPORT WILL CONTINUE TO BE CONTRACTED			
LOCAL AREA NETWORK (LAN) DEVELOPMENT AND MAINTENANCE SUPPORT	LESS THAN \$1M	JUN 89	JAN 90 - DEC 93
0 OPERATE, MAINTAIN AND ENHANCE WIS-DEVELOPED LANS			



MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
ISO PROTOCOL SUPPORT	\$3.5M - \$4.5M	JUN 89	JAN 90 - JAN 92
<ul style="list-style-type: none"> <li>0 PROVIDE ISO PROTOCOL COMMUNICATIONS FOR THE WIS/WMMCCS BASED SYSTEMS <ul style="list-style-type: none"> <li>- IDENTIFY AND EVALUATE COMMERCIAL OFF THE SHELF PROTOCOL PRODUCTS MOST SUITABLE FOR WMMCCS</li> <li>- IDENTIFY AREAS IN WHICH ENHANCEMENTS ARE NEEDED TO SATISFY WMMCCS REQUIREMENTS <ul style="list-style-type: none"> <li>- SECURITY</li> <li>- NETWORK MANAGEMENT</li> <li>- FUNCTIONALITY</li> <li>- INTERFACES TO EXISTING APPLICATIONS</li> </ul> </li> <li>- IMPLEMENT REQUIRED ENHANCEMENTS AND PROVIDE AN INTEGRATED SUITE FOR WMMCCS</li> </ul> </li> </ul>			

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
WIS CONFIGURATION MANAGEMENT SYSTEM			
0 DEVELOP AN AUTOMATED CONFIGURATION MANAGEMENT SYSTEM FOR THE WWMCCS INFORMATION SYSTEM	\$4M - 6M	1990	1990 1993

#0556-H-CV



## JOINT TEST ELEMENT SETA CONTRACT DESCRIPTION

THE SERVICES PROVIDED BY THE CONTRACTOR SHALL ENCOMPASS A WIDE RANGE OF SCIENTIFIC, ENGINEERING, AND INTEGRATED LOGISTICS SUPPORT TASKS IN SUPPORT OF JTC3A MISSIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SUPPORT ASPECTS DURING PLANNING, CONDUCTING AND REPORTING OF INTEROPERABILITY TESTING. THE CONTRACTOR SERVICES SHALL ALSO INCLUDE DEVELOPMENT, DESIGN, AND ENGINEERING MAINTENANCE FOR SELECTED ITEMS OF EQUIPMENT USED IN THE JOINT TEST FACILITY.

## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS:

- WHO: JOINT TEST ELEMENT, FORT HUACHUCA, AZ
- WHAT MISSION: INTEROPERABILITY TESTING
- HOW: BY PROVIDING NON-PERSONAL SERVICES IN RESPONSE TO VARIOUS TASKS
- WHY: EXPAND EXPERIENCE BASE AT JTE TO SUPPORT TESTING MISSION
- PRODUCTS: SERVICES AND REPORTS
- DELIVERABLES: VARIES ACCORDING TO TASK

## CONTRACT DATA

CONTRACTING AGENCY: FORT HUACHUCA

USER COMMAND/AGENCY: JTC3A

POINT OF CONTACT: GERRY GORZUCH,  
1-602-538-1691

KEY LOCATIONS: FORT HUACHUCA, AZ

CONTRACT PERIOD(S): DOLLAR VALUE

JUL 88 - JUL 89	500K - 1000K
JUL 89 - JUL 90	700K - 1,200K
JUL 90 - JUL 91	900K - 1,400K
JUL 91 - JUL 92	1,100K - 1,600K

## MAJOR JTC3A CONTRACTUAL EFFORTS FUTURE

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
JTE SETA CONTRACT TO PROVIDE ENGINEERING AND SCIENTIFIC SUPPORT.	500K - 1000K 700K - 1,200K 900K - 1,400K 1,100K - 1,600K	FEB 88	OCT 88 - OCT 89 OCT 89 - OCT 90 OCT 90 - OCT 91 OCT 91 - OCT 92
100% SMALL BUSINESS SET-ASIDE			

#056-H-CV

## JOINT TEST CENTER SETA CONTRACT DESCRIPTION

THE SERVICES PROVIDED BY THE CONTRACTOR SHALL ENCOMPASS A WIDE RANGE OF SCIENTIFIC, ENGINEERING, AND INTEGRATED LOGISTICS SUPPORT TASKS IN SUPPORT OF JTC3A MISSIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SUPPORT ASPECTS DURING PLANNING, CONDUCTING AND REPORTING OF INTEROPERABILITY TESTING. THE CONTRACTOR SERVICES SHALL ALSO INCLUDE DEVELOPMENT, DESIGN, AND ENGINEERING MAINTENANCE FOR SELECTED ITEMS OF EQUIPMENT USED IN THE JOINT TEST FACILITY.

## CONTRACT DATA

CONTRACTING AGENCY: FORT HUACHUCA  
 USER COMMAND/AGENCY: JTC3A  
 POINT OF CONTACT: MR. STEVE BRIDGES,  
 1-602-538-2910  
 FORT HUACHUCA, AZ

CONTRACT PERIOD(S):	DOLLAR VALUE
JUL 92 - JUL 93	2,000K - 4,000K
JUL 93 - JUL 94	2,250K - 4,250K
JUL 94 - JUL 95	2,500K - 4,500K
JUL 95 - JUL 96	2,750K - 4,750K
JUL 96 - JUL 97	3,000K - 5,000K

## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS:

- WHO: JOINT TEST CENTER, FORT HUACHUCA, AZ
- WHAT MISSION: INTEROPERABILITY TESTING
- HOW: BY PROVIDING NON-PERSONAL SERVICES IN RESPONSE TO VARIOUS TASKS
- WHY: EXPAND EXPERIENCE BASE AT JTC TO SUPPORT TESTING MISSION
- PRODUCTS: PRINCIPALLY REPORTS
- DELIVERABLES: VARIES ACCORDING TO TASK

## MAJOR JTC3A CONTRACTUAL EFFORTS FUTURE

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
PROVIDE SETA TO THE JOINT TEST CENTER	2,000K - 4,000K	DEC 91	OCT 92 - OCT 93
	2,250K - 4,250K		OCT 93 - OCT 94
	2,500K - 4,500K		OCT 94 - OCT 95
	2,750K - 4,750K		OCT 95 - OCT 96
	3,000K - 5,000K		OCT 96 - OCT 97

#056-H-CV

## JOINT TEST CENTER O&M CONTRACT DESCRIPTION

THE CONTRACTOR WILL BE TASKED TO PERFORM NON-PERSONAL TECHNICAL SUPPORT INVOLVING INTEROPERABILITY TESTING. THIS SUPPORT WILL ENCOMPASS A WIDE RANGE OF FUNCTIONS TO INCLUDE SITE PREPARATION, EQUIPMENT CONFIGURATION, OPERATION OF GOVERNMENT OWNED TEST EQUIPMENT, AND MAINTENANCE OF SUCH EQUIPMENT.

## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS:

- WHO: JOINT TEST CENTER, FORT HUACHUCA, AZ
- WHAT MISSION: INTEROPERABILITY TESTING
- HOW: PROVIDING NON-PERSONAL SERVICES IN RESPONSE TO TASK ASSIGNMENTS
- WHY: EXPAND EXPERTISE AND CAPABILITY OF THE JTC TO PERFORM ITS MISSION
- PRODUCTS: SERVICES AND REPORTS
- DELIVERABLES: VARIES DEPENDING UPON TASK ASSIGNED

## CONTRACT DATA

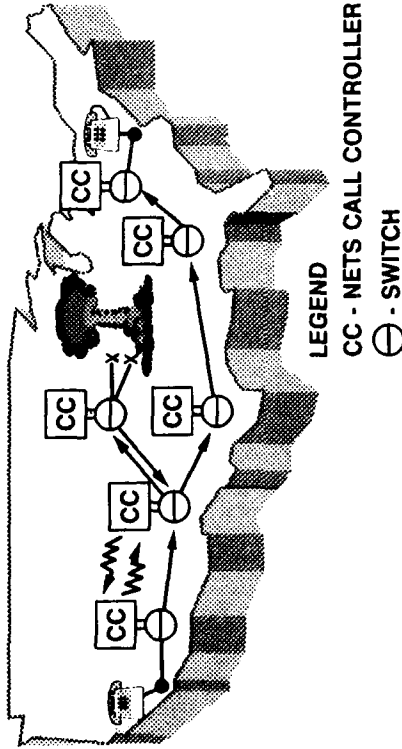
CONTRACTING AGENCY: FORT HUACHUCA  
 USER COMMAND/AGENCY: JTC3A  
 POINT OF CONTACT: MR. STEVE BRIDGES,  
 1-602-538-2910  
 KEY LOCATIONS: FORT HUACHUCA, AZ  
 CONTRACT PERIOD(S):  
 MAR 92 - MAR 93 4,000K - 6,000K  
 MAR 93 - MAR 94 4,500K - 6,500K  
 MAR 94 - MAR 95 5,000K - 7,000K  
 MAR 95 - MAR 96 5,500K - 7,500K  
 MAR 96 - MAR 97 6,000K - 8,000K

## MAJOR JTC3A CONTRACTUAL EFFORTS FUTURE

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
OPERATE AND MAINTAIN JOINT TEST CENTER EQUIPMENT	4,000K - 6,000K 4,500K - 6,500K 5,000K - 7,000K 5,500K - 7,500K 6,000K - 8,000K	AUG 91	MAR 92 - MAR 93 MAR 93 - MAR 94 MAR 94 - MAR 95 MAR 95 - MAR 96 MAR 96 - MAR 97

#056-H-CV

# NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE



## FUNCTIONAL DESCRIPTION OF NETS

- SUPPORTS EXECUTIVE AGENCIES DURING NATIONAL EMERGENCIES
- EXPLOITS SURVIVING ASSETS OF PSN
- CIRCUMVENTS LIMITED ROUTING OF PSN
- DISTRIBUTED CALL CONTROLLING MECHANISMS
- MULTIPLE CARRIERS, LOCAL OPERATING COMPANIES
- WILL SUPPORT VOICE AND 2.4KB/S DATA

## CONTRACT DATA

CONTRACTING AGENCY: DECCO  
POINT OF CONTACT: DON MILLER  
LOCATION: SCOTT AFB

PRIME CONTRACT PERIOD:

DEC 90 - DEC 95  
PLUS OPTION YEARS

## MILESTONES

- RELEASE OF RFP AUG 89
- CONTRACT AWARD DEC 90
- IOC DEC 93
- FOC FY 96

#057-CV

# **NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE**

## **NATIONAL COMMUNICATIONS SYSTEM**

**PROGRAM TITLE: NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE**

### **SUMMARY PROJECT DESCRIPTION:**

**OBTAIN A FLEXIBLE AND WIDELY DISTRIBUTED SERVICE, BASED UPON CURRENT AND PROPOSED PUBLIC SWITCHED NETWORKS, TO SUPPLY A HIGHLY SURVIVABLE SWITCHED VOICE-CHANNEL CONNECTIVITY TO MEET NATIONAL SECURITY EMERGENCY PREPAREDNESS REQUIREMENTS.**

### **SCHEDULE:**

<b>FEASIBILITY STUDIES</b>	<b>1981 - 1984</b>
<b>INITIAL SYSTEM ENGINEERING</b>	<b>1983 - 1986</b>
<b>DEMONSTRATION NETWORK</b>	<b>1984 - 1986</b>
<b>SYSTEM SPECIFICATION DEVELOPMENT</b>	<b>1986 - 1988</b>
<b>PRIME RFP ISSUES</b>	<b>1989</b>
<b>PRIME CONTRACT AWARD</b>	<b>1990</b>
<b>IOC</b>	<b>1993</b>
<b>FOC</b>	<b>1996</b>

**#057-CV**



## **PURPOSE**

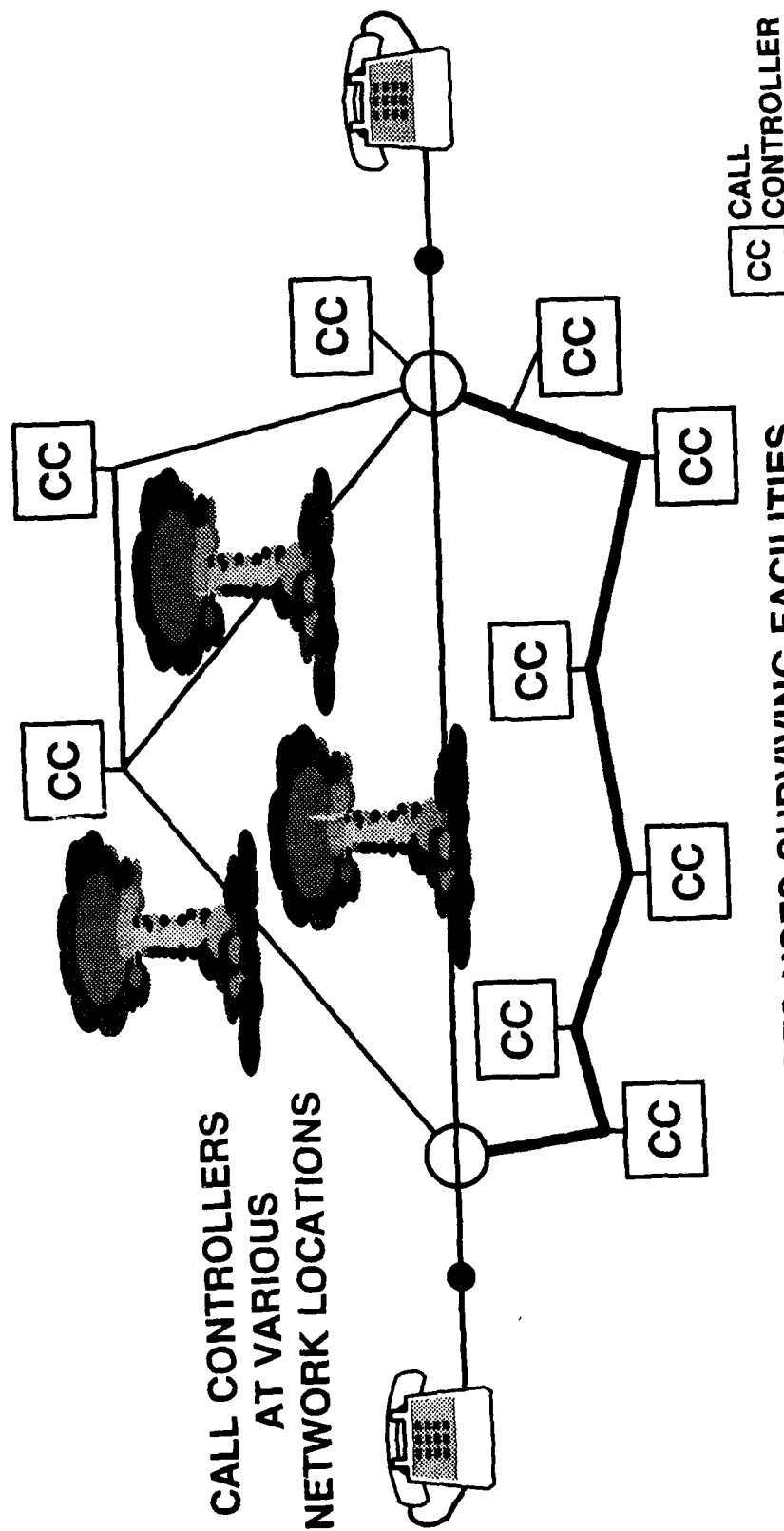
- **TO PROVIDE AN OVERVIEW  
OF THE NETS PROGRAM**

057-20-FEB 88-RC

## **WHAT IS NETS?**

- **A MAJOR OMNCS INITIATIVE FOR THE IMPROVEMENT OF NSEP TELECOMMUNICATIONS**
- **A HIGHLY SURVIVABLE, INTERAGENCY VOICE AND LOW-SPEED-DATA COMMUNICATIONS SERVICE**
- **A DISTRIBUTED SYSTEM OF CALL CONTROLLERS AND OTHER SURVIVABILITY ENHANCEMENTS INSTALLED WITHIN THE PUBLIC SWITCHED NETWORKS**

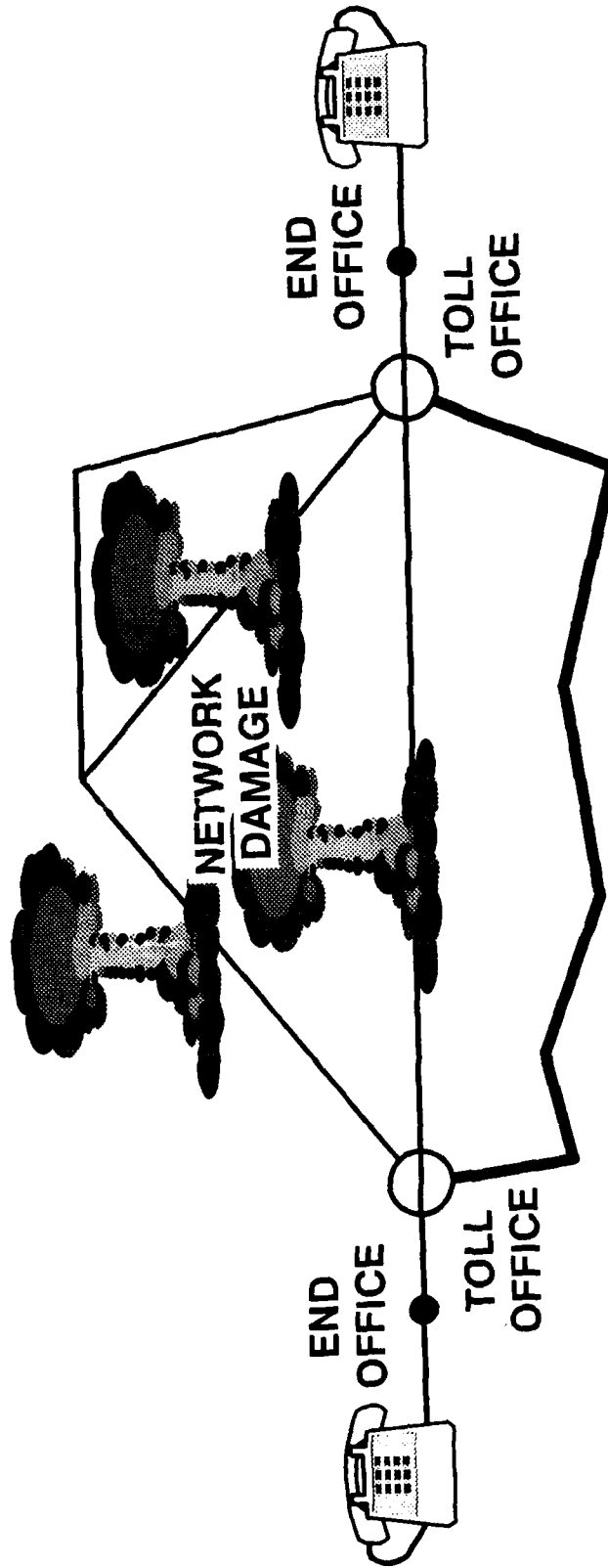
# THE ROLE OF NETS IN EMERGENCY COMMUNICATIONS



NETS USES SURVIVING FACILITIES  
TO MAKE CALL COMPLETION POSSIBLE

#057-CV

# MINIMAL POST-ATTACK CONNECTIVITY



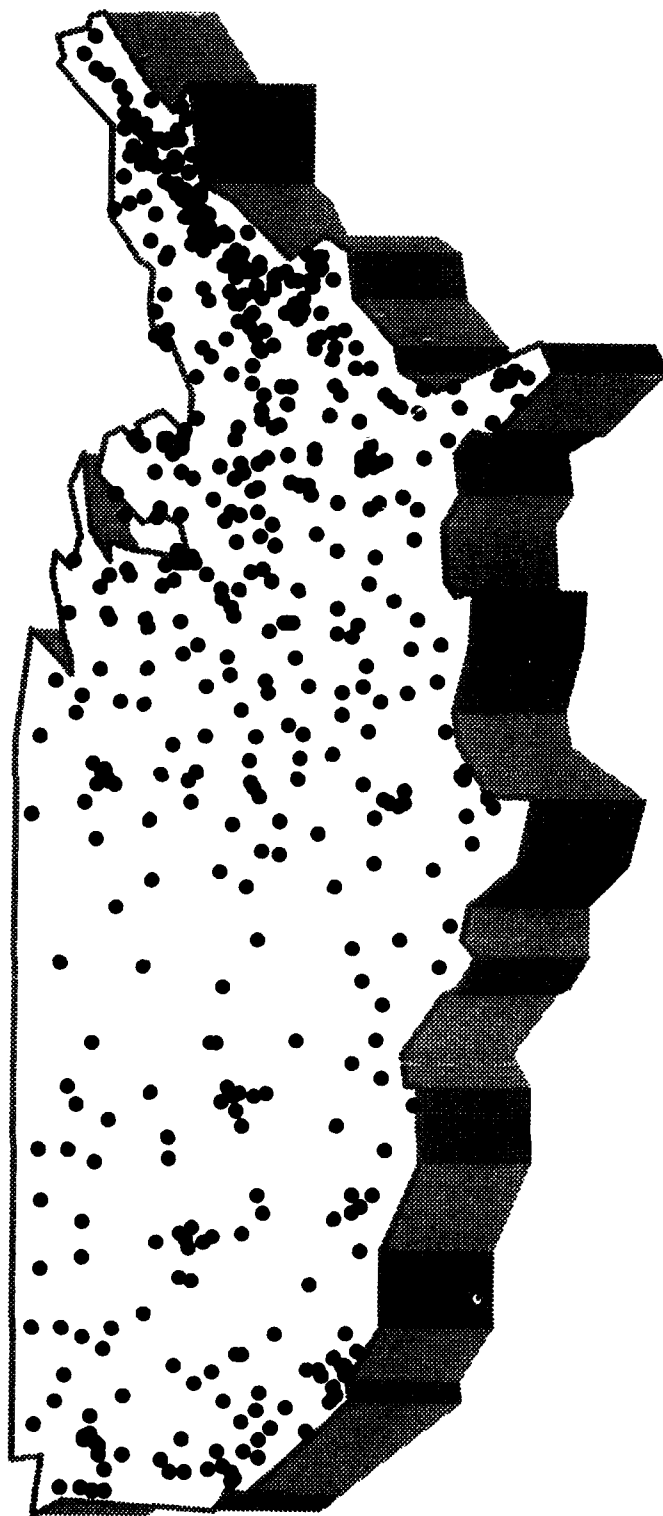
SURVIVING FACILITIES BUT  
NO CALL COMPLETION POSSIBLE

#057-CV

## **NETS BACKGROUND**

- **BASED ON SURVIVABILITY STUDIES THAT SHOWED SIGNIFICANT PORTIONS OF THE PUBLIC NETWORKS SURVIVE AN ATTACK**
- **OMNCS STUDY IN 1981 INDICATED A NETWORK OF SURVIVING SWITCHES/FACILITIES TECHNICALLY FEASIBLE**
- **ADDITIONAL STUDIES, REQUIREMENTS DEFINITION, ENGINEERING, AND DEMONSTRATIONS CONDUCTED IN 1982-1985**
- **GOVERNMENT (EXECUTIVE OFFICE OF THE PRESIDENT) DECISION TO FUND NETS ON AN NCS AGENCY SHARED BASIS (1985)**
- **GOVERNMENT DECISION TO PROCEED WITH SYSTEM/COMPONENT SPECIFICATIONS (1985-86)**
- **BEGAN STRUCTURING FOR COMPETITIVE ACQUISITION (1987)**

# USER DISTRIBUTION



#057-J-CV

# **ATTRIBUTES AND LIMITATIONS OF THE PUBLIC SWITCHED NETWORKS**

## **ATTRIBUTES**

- **UBIQUITOUS ACCESS**
- **SURVIVABILITY**
- **EASE OF USE**
- **ROBUSTNESS**
- **RELIABILITY**
- **READINESS**
- **DIVERSITY OF PHYSICAL PATHS**

## **LIMITATIONS**

- **LIMITED ROUTING ALTERNATIVES AND NOT EXHAUSTIVELY PROBED**
- **CENTRALIZED SIGNALING**
- **CONSOLIDATION OF TRAFFIC ON HIGH CAPACITY ROUTES**

# **NETS ATTRIBUTES**

- **NATIONWIDE COVERAGE**
- **INTEROPERABILITY WITH CARRIERS  
AND USER SYSTEMS**
- **SECURITY FEATURES**
- **CONSTANT STATE OF READINESS**
- **PRIORITY SERVICE**
- **SURVIVABILITY**

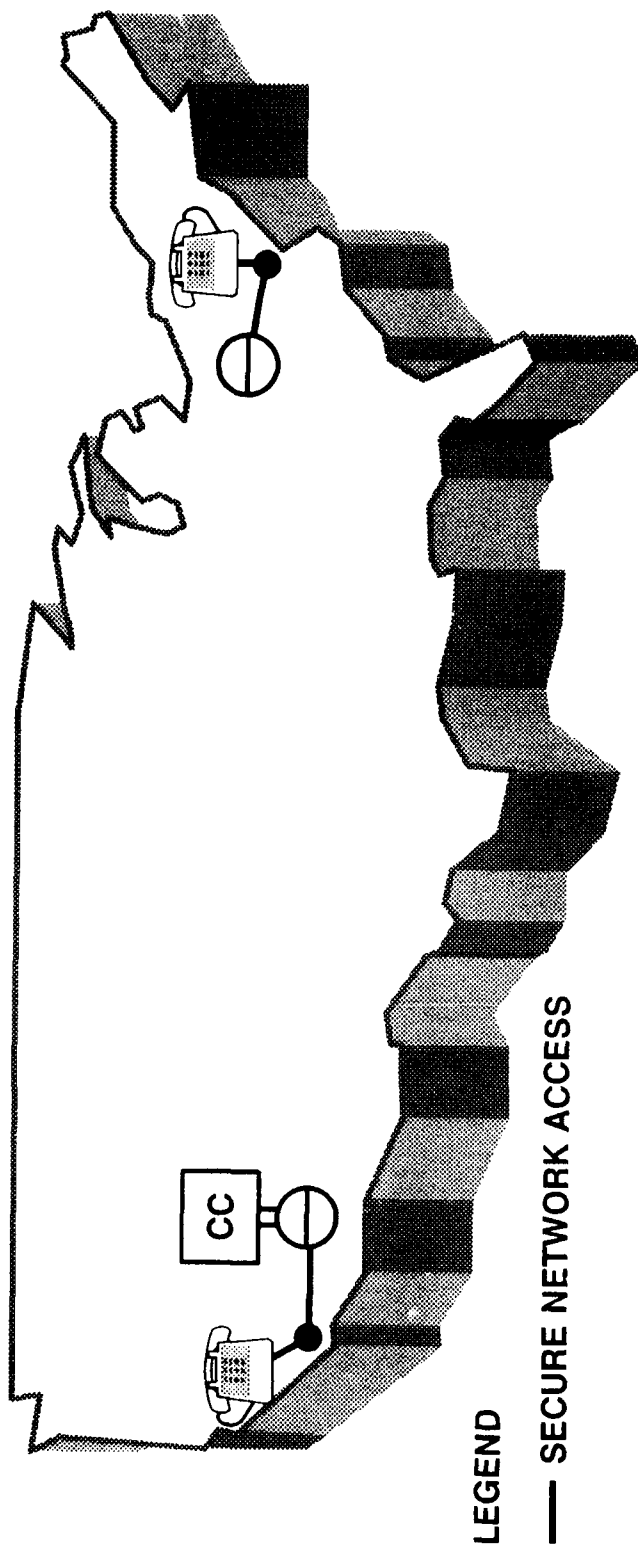
057-27-FEB 88-RC



## **NETS ENHANCEMENTS TO PUBLIC SWITCHED NETWORK CAPABILITIES**

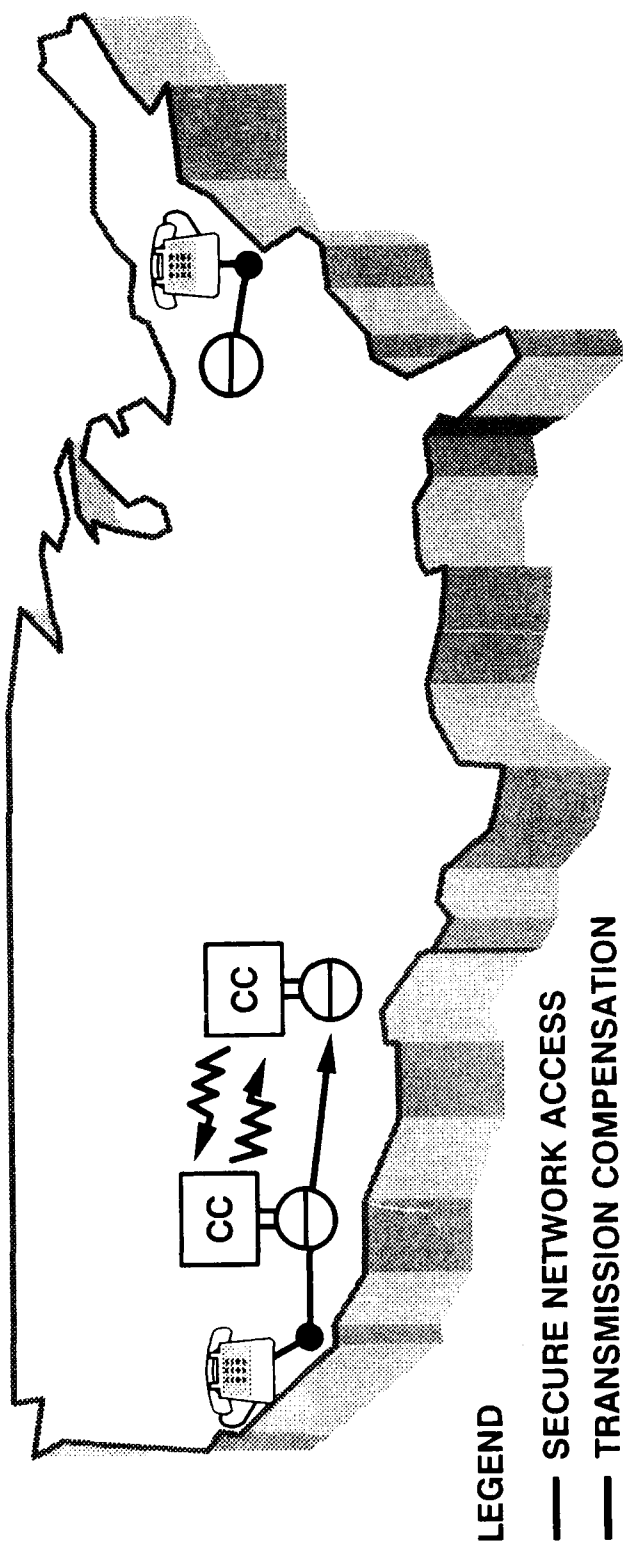
- **EXTENSIVELY PROBES AVAILABLE ROUTES**
- **PROVIDES TRANSMISSION TREATMENT FOR  
NON-STANDARD ROUTES**
- **PROVIDES CAPABILITY TO USE NETWORK  
MANAGEMENT CONTROLS TO IMPROVE  
HANDLING OF NATIONAL SECURITY  
EMERGENCY PREPAREDNESS TRAFFIC**
- **PROVIDES CAPABILITY TO USE AUGMENTATIONS  
(e.g., INTERCONNECTIONS AND NEW ROUTES)**

# HOW NETS WORKS



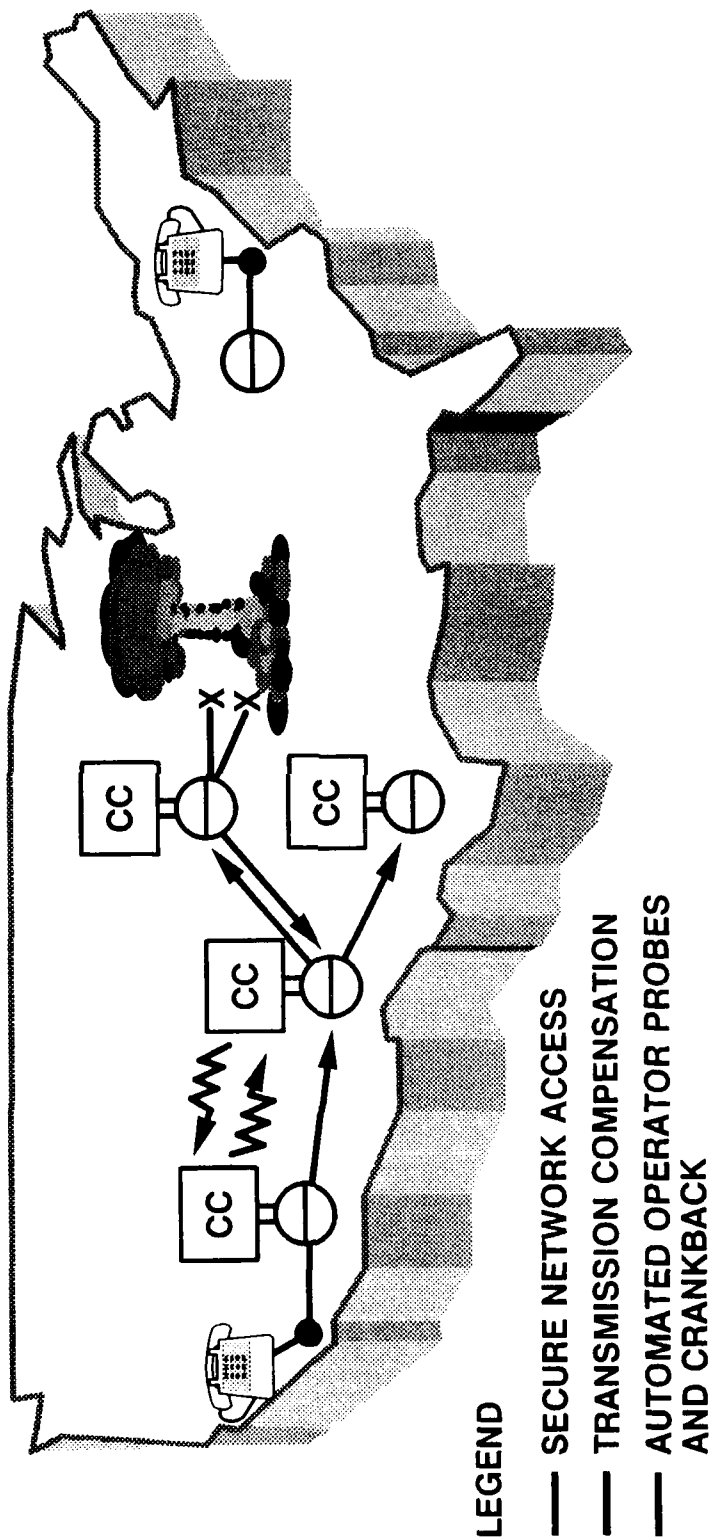
#057-J-CV

# HOW NETS WORKS



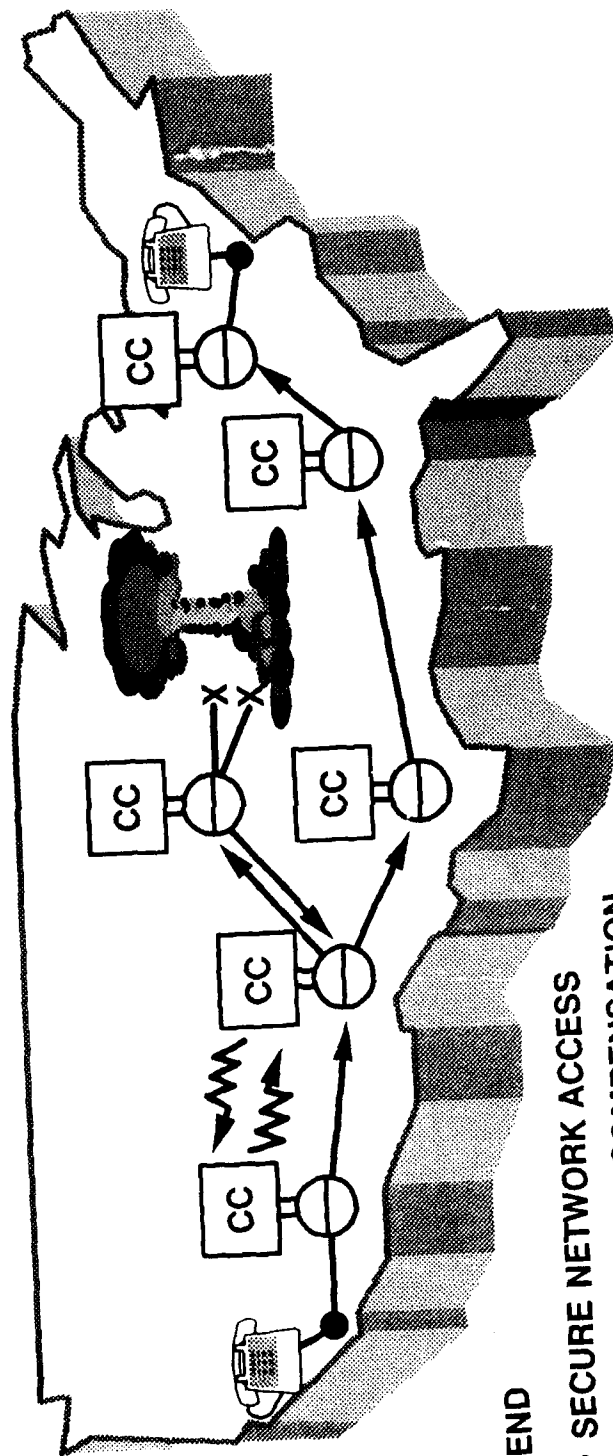
#057-J-CV

# HOW NETS WORKS



#057-J-CV

# HOW NETS WORKS



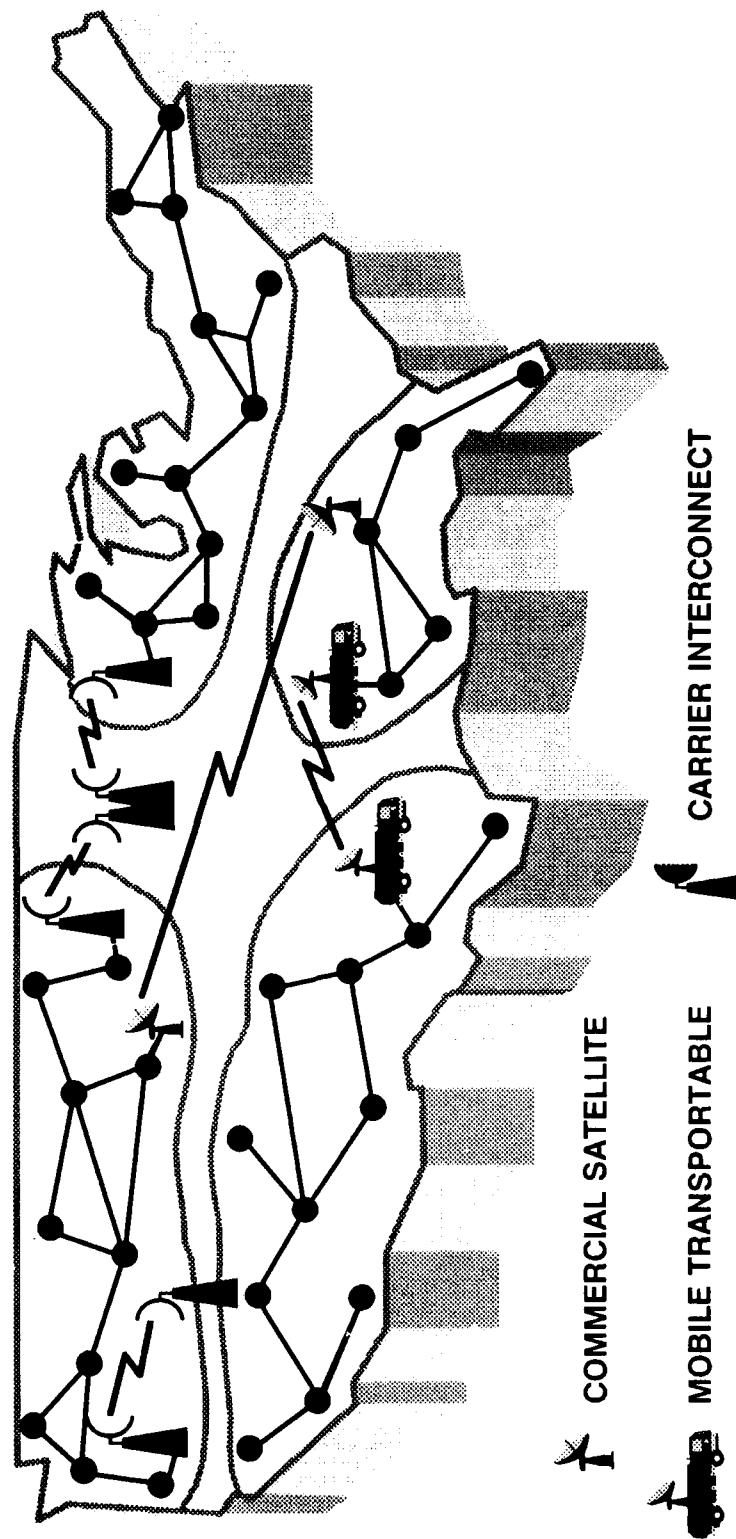
## LEGEND

- SECURE NETWORK ACCESS
- TRANSMISSION COMPENSATION
- AUTOMATED OPERATOR PROBES AND CRANKBACK
- CALL COMPLETION WITH SEVERAL CCs IN TANDEM

**#057-J-CV**

# TRANSMISSION AUGMENTATION

## SURVIVING COMMON CARRIER ENCLAVES

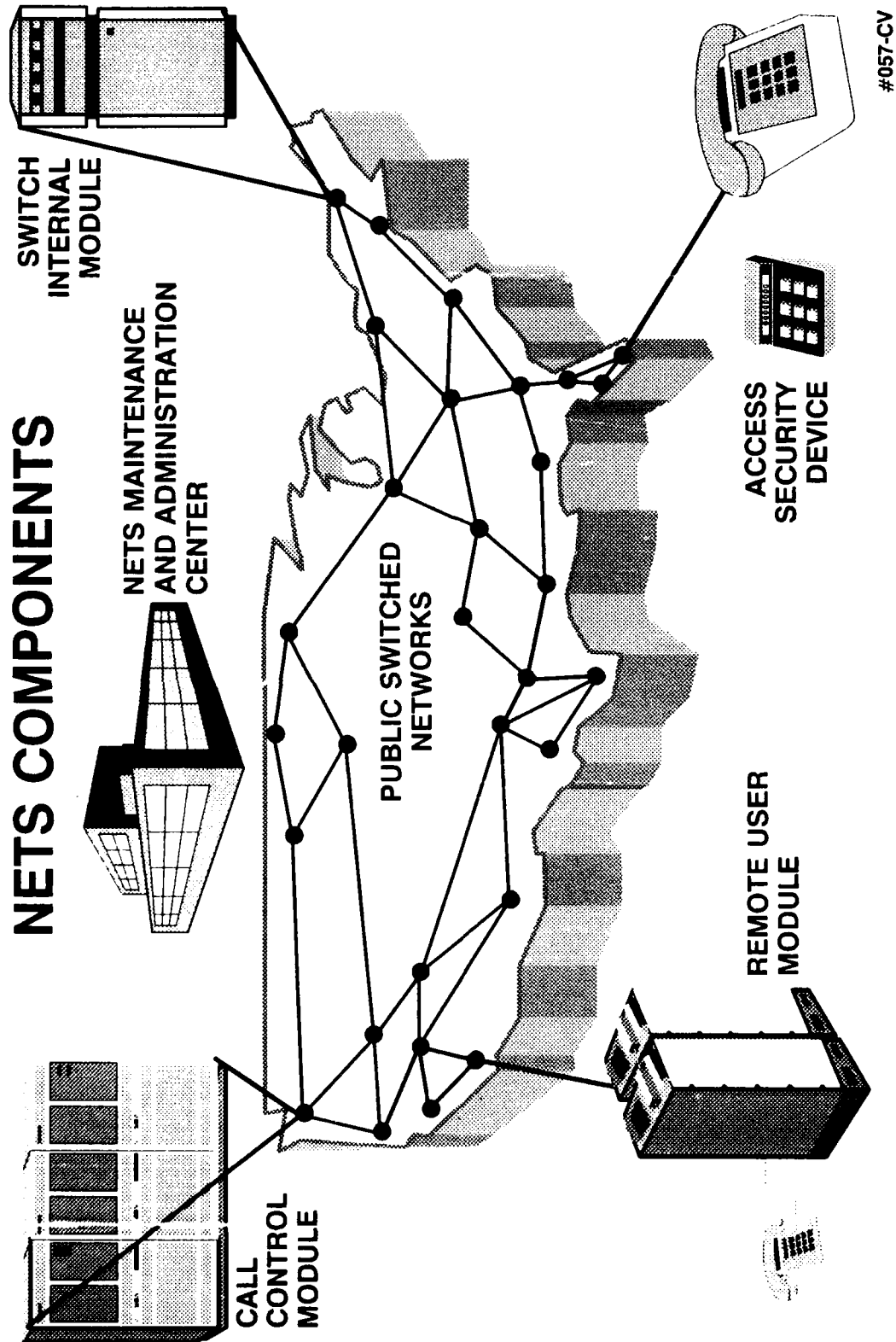


#057-J-CV

# **FEATURES AND FUNCTIONS**

- **UNIVERSAL NUMBERING PLAN**
- **TONES AND ANNOUNCEMENTS**
- **PRIORITY, PRECEDENCE, PREEMPTION**
- **RETRY CAPABILITY**
- **PRESET CONNECTIONS**
- **ACCESS SECURITY**
- **VOICE AND 2400 B/S DATA SERVICE**

057-34-FEB 88-RC



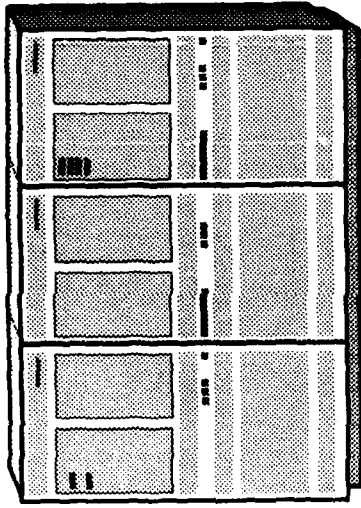


# **FUNCTIONS OF NETS CALL CONTROLLERS**

- **ROUTING**
- **SIGNALING**
- **TRAFFIC MANAGEMENT**
- **TRANSMISSION TREATMENT**
- **ACCESS SECURITY**

057-36-FEB 88-RC

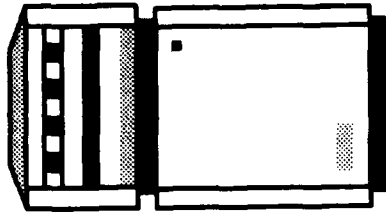
## CALL CONTROL MODULE



- CONNECTED TO A HOST SWITCH VIA STANDARD TRUNK INTERFACES
- USES PSN AND SPECIAL NETS ROUTING PROBES
- PROVIDES ACCESS SECURITY FUNCTIONS
- PROVIDES TRANSMISSION COMPENSATION
- STORES CALL RECORDS

#057-J-CV

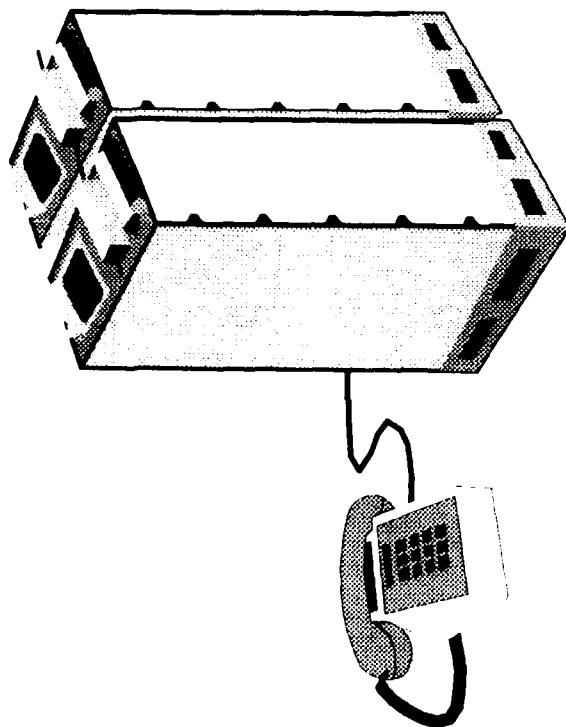
## **SWITCH INTERNAL MODULE**



- **IMPLEMENTATION OF CALL CONTROLLER FUNCTIONS IN NORTHERN TELECOM DMS 100 FAMILY OF SWITCHES**
- **PERFORMS ROUTING, SIGNALING, AND SOME NETWORK MANAGEMENT CONTROLS**
- **DEVELOPED AND DEPLOYED BY THE SWITCH MANUFACTURER**
- **ADDITION OF SECURITY AND TRANSMISSION TREATMENT HARDWARE UNDER CONSIDERATION**

#057-CV

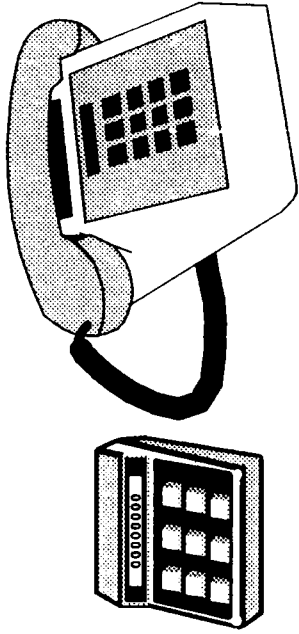
## REMOTE USER MODULE



- AN OPTIONAL CUSTOMER PREMISES HARDWARE DEVICE
- PROVIDES TRANSMISSION TREATMENT
- PLANNED FOR LIMITED DISTRIBUTION TO USERS LOCATED A LONG DISTANCE FROM ORIGINATING CALL CONTROLLERS

#057-CV

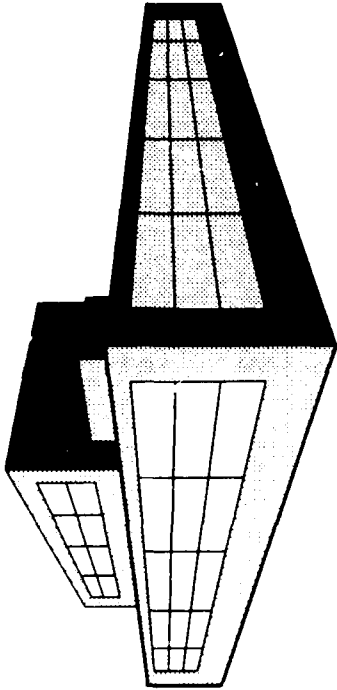
## ACCESS SECURITY DEVICE



- A HAND-HELD DEVICE PERMITTING USERS TO ACCESS THE NETWORK
- ACOUSTIC COUPLING WITH STANDARD TELEPHONES
- PERFORMS THE AUTHENTICATION PROTOCOL WITH CALL CONTROLLERS
- PERMITS ENCRYPTION OF CALL-RELATED INFORMATION (E.G., NUMBER CALLED, PRECEDENCE)

#057-CV

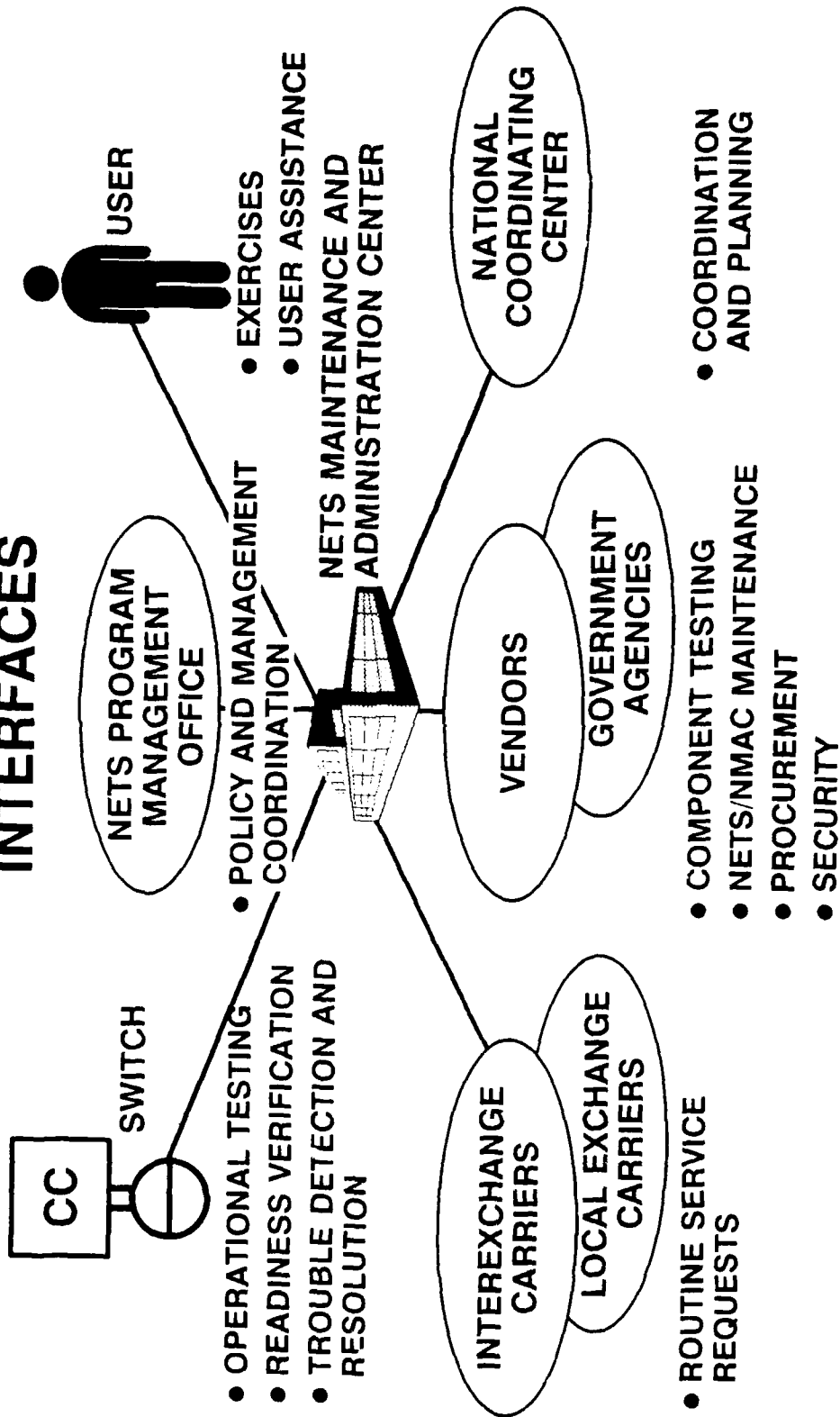
# **NETS MAINTENANCE AND ADMINISTRATION CENTER**



- **AN ADMINISTRATION, OPERATIONS, AND MAINTENANCE CENTER PROVIDING:**
  - PLANNING
  - READINESS
  - MAINTENANCE
  - SECURITY
- **OPERATED BY CONTRACTOR**
- **SECURE FACILITY**
- **NOT NEEDED FOR SURVIVABILITY OF NETS OPERATIONS**

#057-CV

# NETS MAINTENANCE AND ADMINISTRATION CENTER INTERFACES



#057-CV

## **ACQUISITION STRATEGY**

**NETS IS PLANNED TO BE ACQUIRED AS  
A TELECOMMUNICATIONS SERVICE -**

- **UNDER FULL AND OPEN COMPETITION**
- **AS ONE MAJOR ACQUISITION**
- **WITH ONE PRIME CONTRACTOR RESPONSIBLE  
FOR SYSTEM INTEGRATION AND REQUIRED  
SUBCONTRACTS**
- **WITH OMNCS AS PROGRAM MANAGER AND  
DCA AS ACQUISITION AGENT**



# MAJOR CONTRACTUAL EFFORTS

## NATIONAL COMMUNICATIONS SYSTEM

### NETS

### CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0015	NETS SYSTEM SPEC. AND ASSOC. TASKS	AT&T	> 10M	JAN 86 - APR 88
DCA 100-87-C-0139	NETS APPLICATION TO NTI DMS FAMILY	NTI	< 10M	SEP 87 - MAR 90
DCA 100-87-C-0142	US SPRINT SUPPORT TO NETS	US SPRINT	< 3M	SEP 87 - MAR 90
	MCi SUPPORT TO NETS	MCi	< 3M	FEB 88 - AUG 90
	NETS MAINT. AND CONF. MANAGEMENT	NETWORK SOLUTIONS		JAN 88 - JAN 91

#057-CV

# MAJOR CONTRACTUAL EFFORTS NATIONAL COMMUNICATIONS SYSTEM

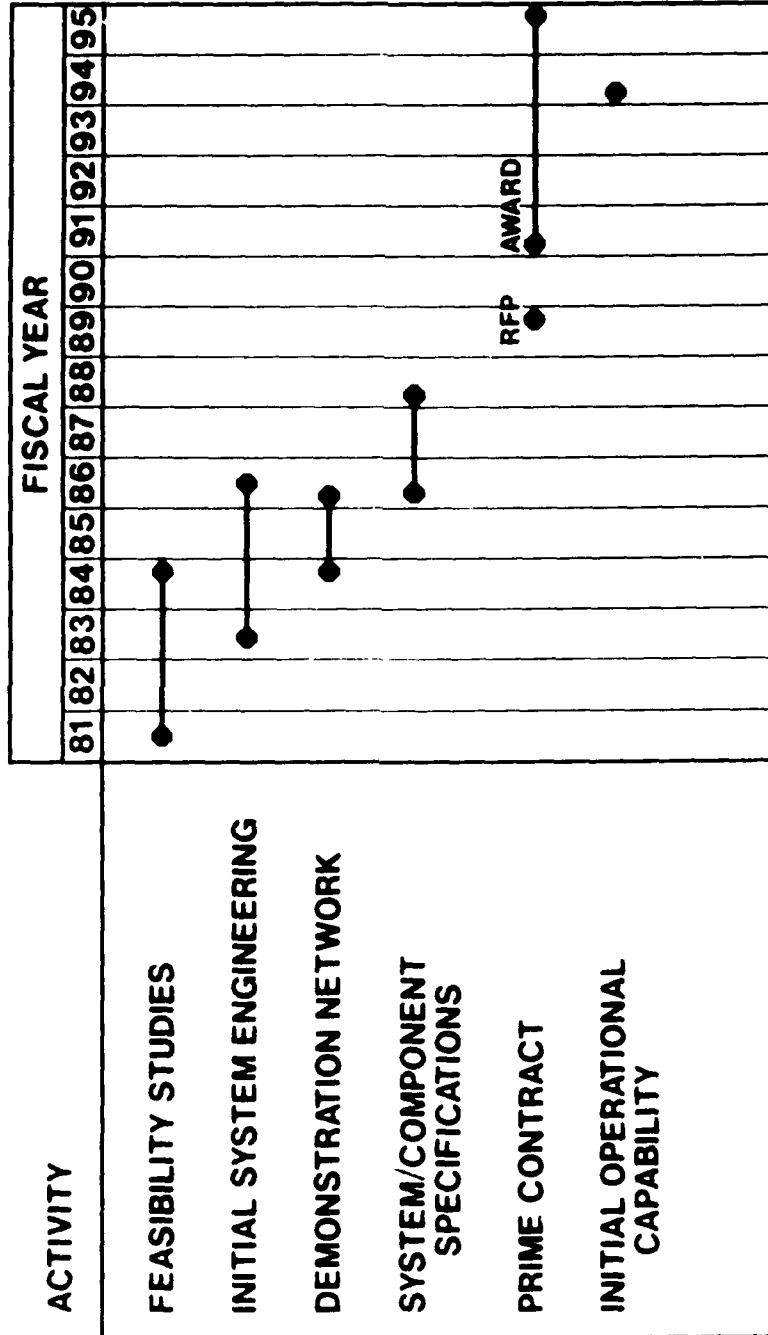
## NETS

## FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED RFP DATE</u>	<u>PERIOD OF PERFORMANCE</u>
LOCAL EXCHANGE CARRIER SUPPORT TO NETS	<5	JAN 88 (COMPETITIVE)	JUN 88 - JAN 90
ROBUST NON-HIERARCHICAL ROUTING IN AT&T NETWORK	>5M	APR 88 (AT&T)	AUG 88 - SEP 92
SURVIVABLE SIGNALING IN THE AT&T NETWORK	>10M	APR 88 (AT&T)	SEP 88 - SEP 91
NETS SETA SUPPORT	>5M	APR 88 (COMPETITIVE)	SEP 88 - SEP 91
NETS PRIME CONTRACTOR	>10M	AUG 89 (COMPETITIVE)	DEC 90 - DEC 95

#057-CV

# NETS SCHEDULE & MILESTONES

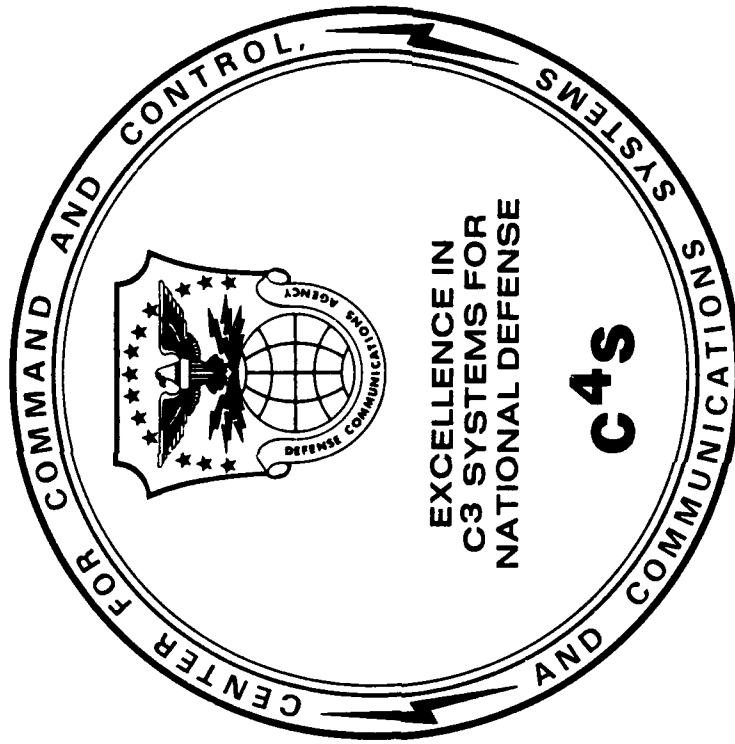


057-44-FEB 88-RC

## **NETS SUMMARY**

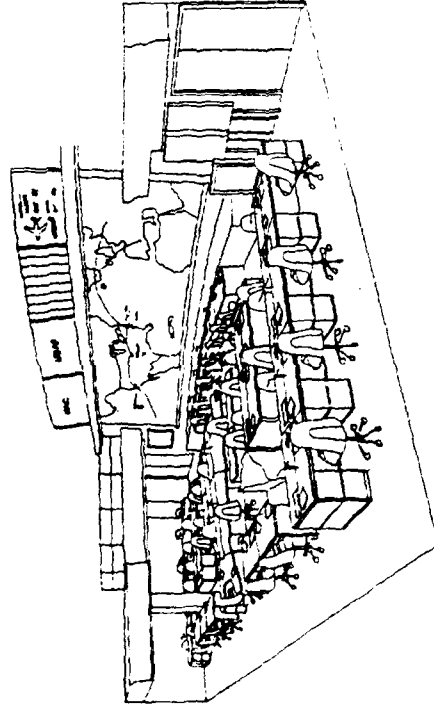
- **NETS WILL MEET THE NATIONAL SECURITY EMERGENCY PREPAREDNESS REQUIREMENTS OF THE DIVERSE GOVERNMENT USERS**
- **NETS WILL EMPLOY THE INDUSTRY-WIDE CAPABILITIES OF THE PUBLIC SWITCHED NETWORKS**
- **NETS WILL COMPLEMENT EXISTING AND PLANNED DEDICATED GOVERNMENT SYSTEMS**
- **NETS WILL PROVIDE FEATURES THAT ARE EASY TO USE IN TIMES OF STRESS**

# COMMAND CENTER IMPROVEMENT PROGRAM



#053-A-CV

# COMMAND CENTER IMPROVEMENT PROGRAM



## FUNCTIONAL DESCRIPTION

1. SUPPORTS UNIFIED AND SPECIFIED COMMANDS
2. MAINTAINING STATE OF THE ART COMMAND CENTERS
3. SOURCE OF INFORMATION ON AVAILABILITY OF COMMERCIAL PRODUCTS
4. ANNUAL CONFERENCE, NEWSLETTER, FACTSHEETS, WORKSHOPS, DEMONSTRATIONS, AND TECHNICAL EVALUATIONS

## CONTRACT DATA

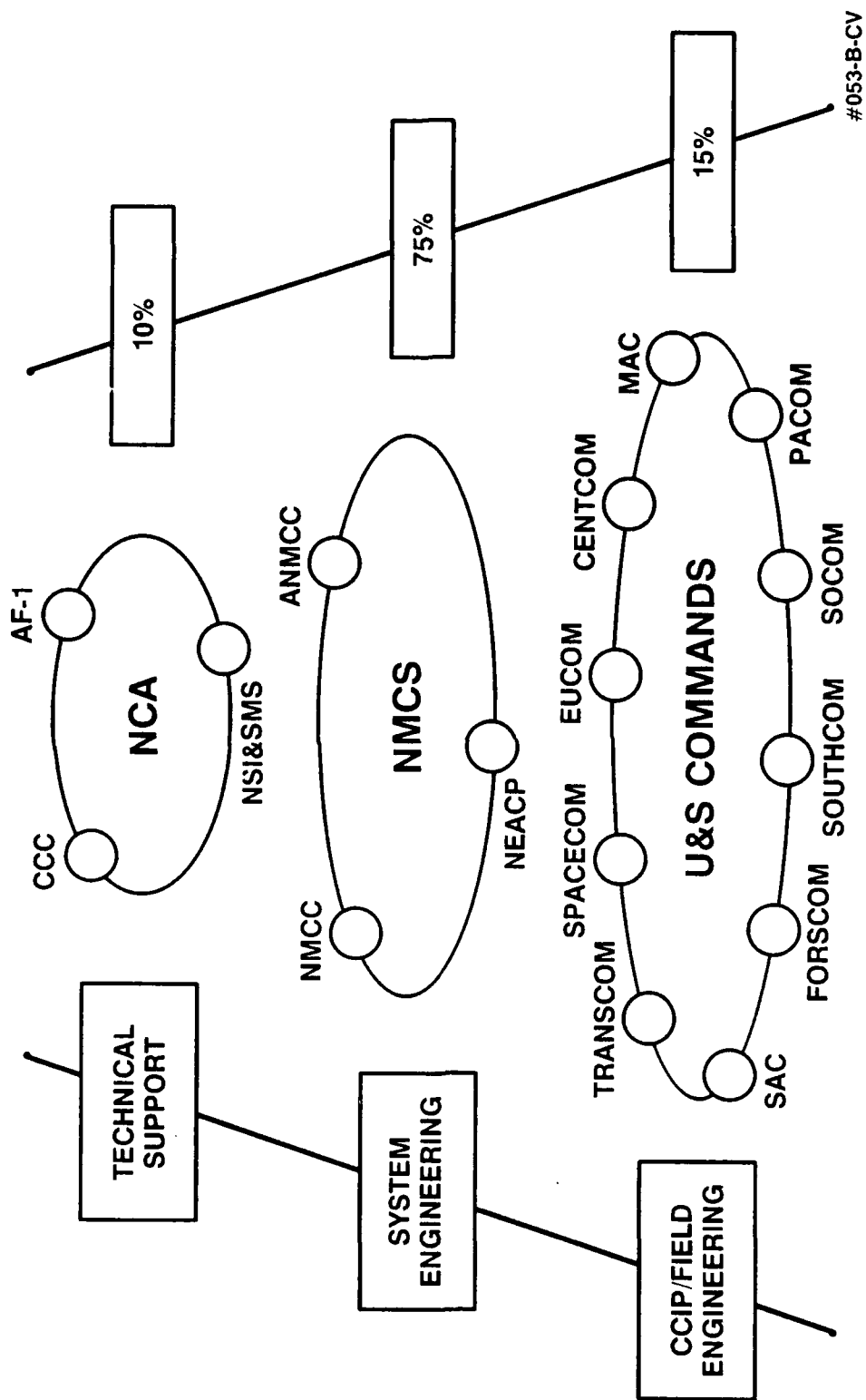
CONTRACTING AGENCY: DCA  
P.O.C.: LTC DOUG BEHNKE  
BOOZ-ALLEN & HAMILTON INC.  
SEP 86-SEP 89 \$5.7M

## KEY MILESTONES

OJCS PROGRAM ESTABLISHED 1984  
MODEL COMMAND CENTER 1986

#053-B-CV

# COMMAND CENTER SYSTEMS PROGRAM



# **COMMAND CENTER IMPROVEMENT PROGRAM**

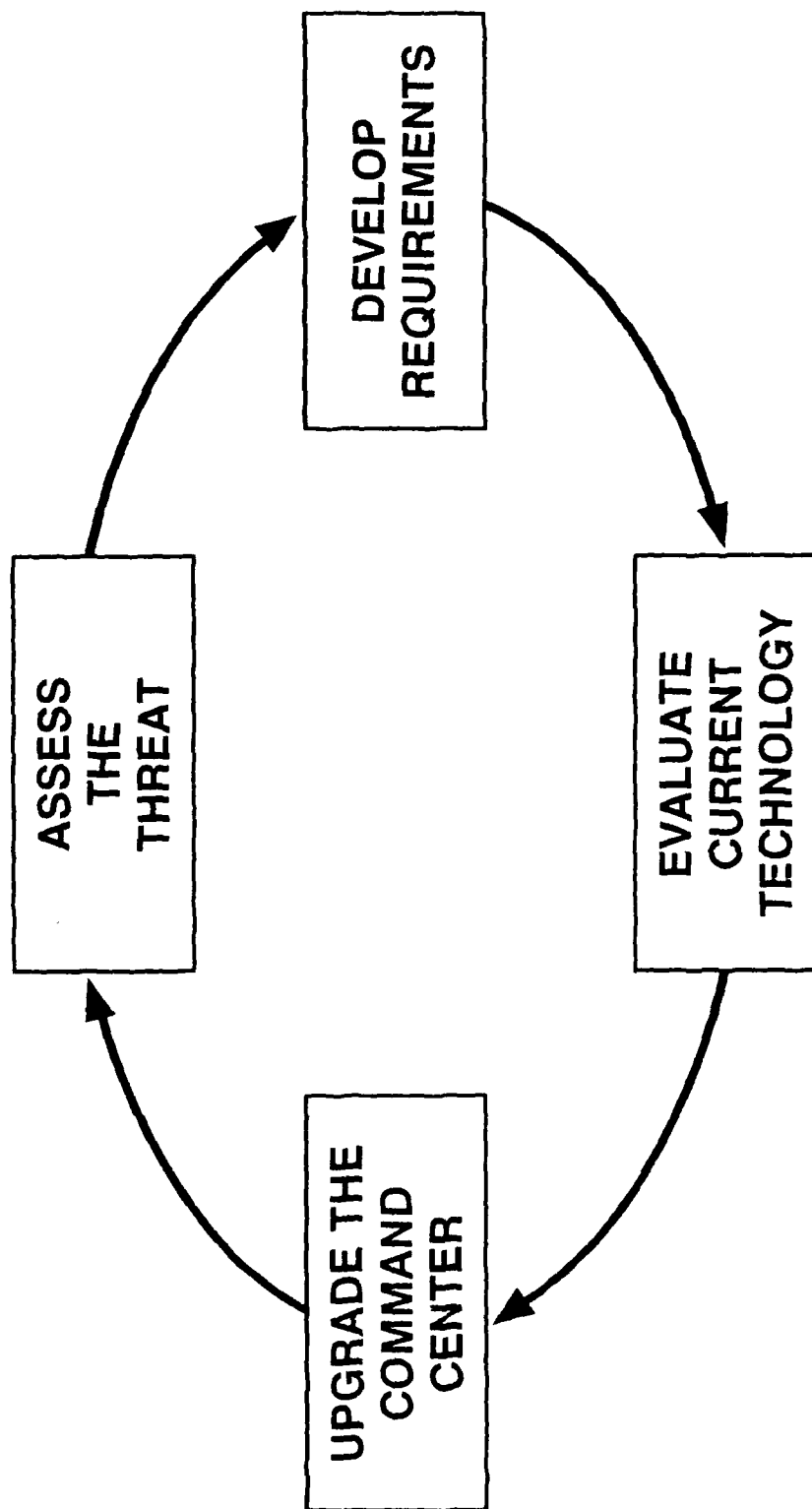
- **PROVIDE TECHNICAL ADVICE AND LEADERSHIP FOR  
THE MODERNIZATION OF CINC COMMAND CENTERS**
  - **INFORMATION EXCHANGE**
  - **ENGINEERING ASSISTANCE**
  - **RAPID PROTOTYPING**
  - **TECHNICAL DIRECTION**
  - **LESSONS LEARNED FOR NMCC**
  
- **FOSTER THE EFFICIENT APPLICATION OF RESOURCES  
TO ACHIEVE A SIGNIFICANTLY IMPROVED CAPABILITY**
  - **NEW TECHNOLOGY**
  - **COMMONALITY**
  - **INTEROPERABILITY**



## **ORIGINS**

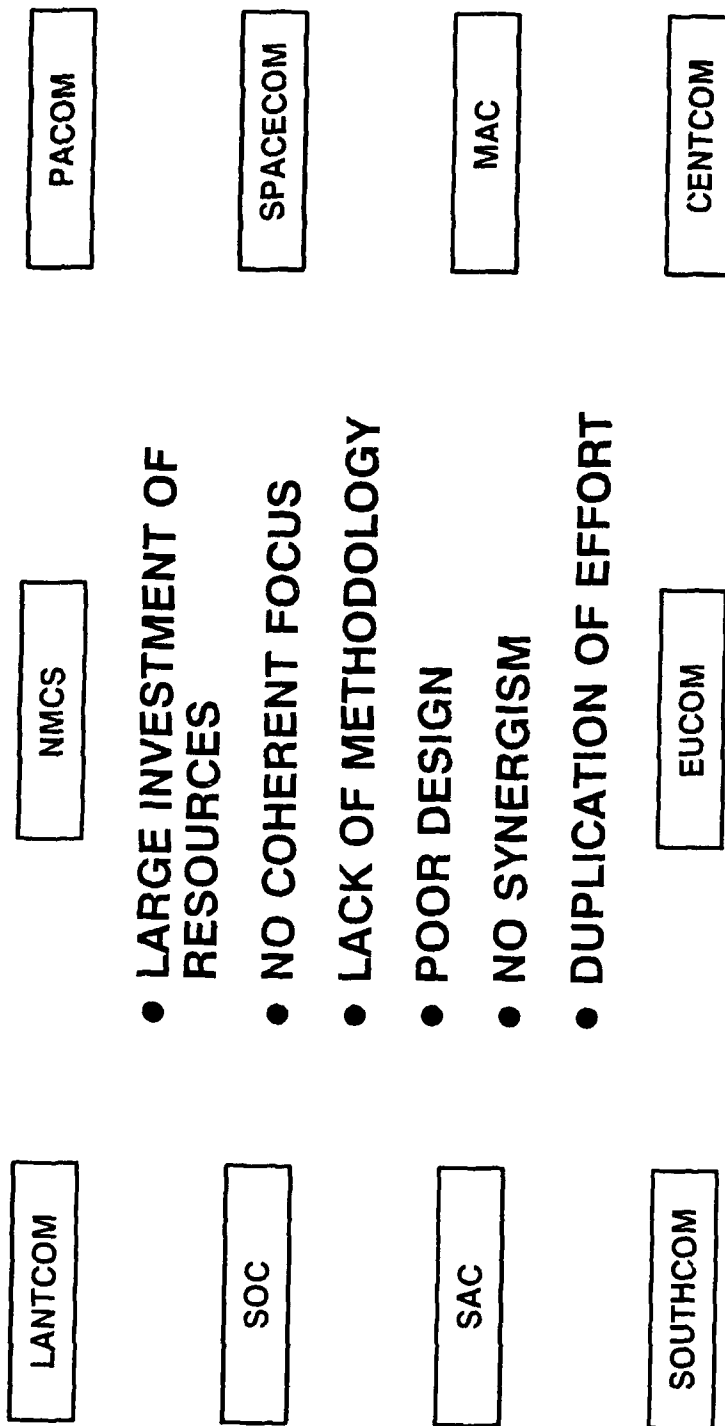
- **PERCEIVED NEED FOR THE TECHNICAL DIALOG BETWEEN U&S COMMAND CENTER OPERATORS RE COMMAND CENTER UPGRADING MATTERS**
- **JCS TASKED DCA TO PROVIDE A MECHANISM FOR SHARING U&S LESSONS LEARNED, JAN 84**

# COMMAND CENTER UPGRADE PROCESS



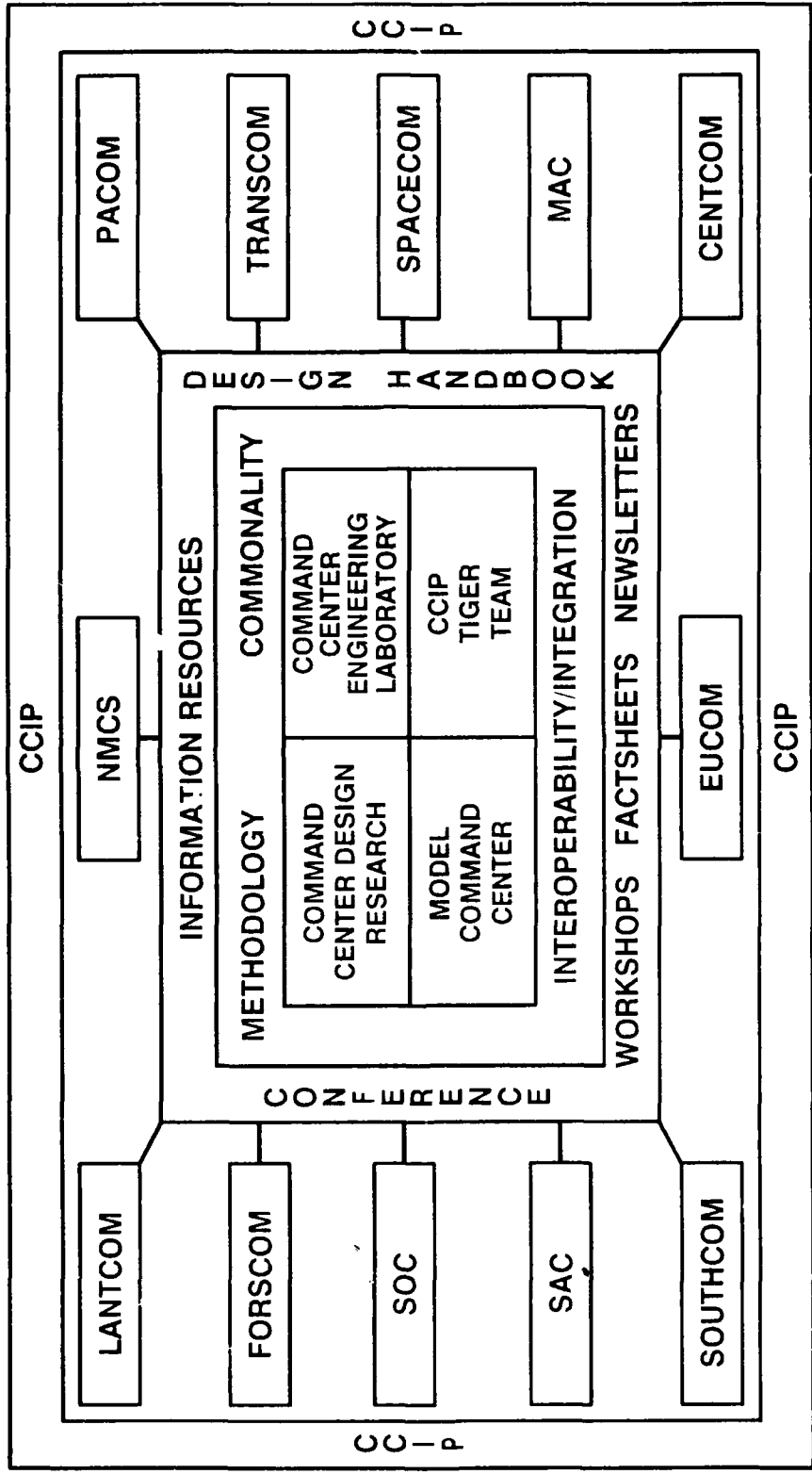
#053-B-CV

# COMMAND CENTER UPGRADES (PRE-CCIP)



#053-B-CV

# CCIP CONSTRUCT



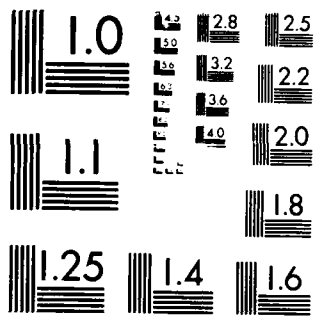
AD-A195 551

AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS  
ASSOCIATION) SYMPOSIUM (2ND... (U) DEFENSE COMMUNICATIONS 5/5  
AGENCY ARLINGTON VA APR 88

UNCLASSIFIED

F/G 25/5 NL

END  
CPL  
FILMED  
9 88



# INFORMATION RESOURCES

## ● CONCEPT

- GATHER AND DISSEMINATE COMMAND CENTER UPGRADE INFORMATION

## ● PRODUCTS

- ANNUAL CCIP CONFERENCE
- TECHNICAL WORKSHOPS
- FACTSHEETS
- "COMMAND CENTER INSIGHT"

## ● ACCOMPLISHMENTS

- THREE CONFERENCES
- ELECTROMAGNETIC PULSE, TEMPEST, VIDEO TELECONFERENCING, VIDEO GRAPHICS WORKSHOPS
- LARGE SCREEN DISPLAY SYSTEM, VIDEO TELECONFERENCING, VIDEO GRAPHICS, BIOMETRIC SECURITY FACTSHEETS
- "COMMAND CENTER INSIGHT" - ISSUED AS NEEDED
- SIGNAL ARTICAL

# COMMAND CENTER DESIGN RESEARCH

## ● CONCEPT

- PROVIDE METHODOLOGY FOR UPGRADING COMMAND CENTERS
- FOSTER STANDARDIZATION AND THE "ILITIES"

## ● APPROACH

- COMMAND CENTER UPGRADE PLANNING
- SYSTEMS ENGINEERING
  - OPERATIONAL ANALYSIS
  - FACILITY DESIGN
  - MISSION SUPPORT ENGINEERING
- CONFIGURATION MANAGEMENT
- LOGISTICS

## ● ACCOMPLISHMENTS

- COMMAND CENTER DESIGN HANDBOOK
- LARGE SCREEN DISPLAY GUIDANCE
- HUMAN ENGINEERED WORKSTATION CONCEPTS



# CCIP TIGER TEAM

## ● CONCEPT

- PROVIDE ENGINEERING GUIDANCE/ADVICE
- MAINTAIN MULTIDISCIPLINARY TEAM OF COMMAND CENTER DESIGN EXPERTS

## ● TEAM COMPOSITION

- DCA
- US ARMY CONSTRUCTION ENGINEERING RESEARCH LAB
- ARMSTRONG AEROSPACE MEDICAL RESEARCH LAB
- NATIONAL COMPUTER SECURITY CENTER
- GENERAL SUPPORT CONTRACTOR
- USER

## ● ACCOMPLISHMENTS

- VISITS TO EUCOM, SOUTHCOM, CENTCOM, USFK, USSPACECOM, ETC.
- AVOIDANCE OF DESIGN DEFICIENCIES

B-07-FEB 86-RC

# **TECHNOLOGY DEMONSTRATION/ PROTOTYPING**

## **● CONCEPT**

- EXPLOIT NEW TECHNOLOGY
- APPLY TECHNOLOGY WHERE IT MAKES SENSE

## **● APPROACH**

- EVALUATE SPECIFIC TECHNOLOGIES
- OBSERVE THE OPERATIONAL CHARACTERISTICS
- PROTOTYPE PROMISING TECHNOLOGIES
- TRANSITION TO COMMAND CENTERS

## **● ACCOMPLISHMENTS**

- LARGE SCREEN DISPLAY SYSTEMS
- HUMAN ENGINEERED WORKSTATION
- SOUTHCOM DATA DISSEMINATION SYSTEM
- VIDEO TELECONFERENCING SYSTEMS
- BIOMETRIC SECURITY DEVICES

## **PAST PROTOTYPING SUCCESSES**

- **LASER PROJECTORS**
- **HUMAN ENGINEERED WORKSTATIONS**
- **USSOUTHCOM DATA DISSEMINATION SYSTEM**
- **FIBER OPTICS TELEPHONE**
- **COMMAND CENTER VIDEO MAPPING SYSTEM**
- **COMMAND CENTER DESIGN HANDBOOK**

## **MOTIVATION**

**“WE ARE NOT SURE WHAT THE REQUIREMENTS ARE  
BUT WE NEED IT BUILT FAST.”**

**“THIS IS NOT IT BUT I WILL KNOW IT WHEN I SEE IT.”**

**“WHAT DO YOU MEAN THE ARCHITECTURE WILL NOT  
SUPPORT THIS NEW TASK?”**

**“THE SYSTEM WAS FIELDDED BUT THE USERS CAN NOT  
OR WILL NOT USE IT.”**

## **CCIP ACTIVITIES/INITIATIVES**

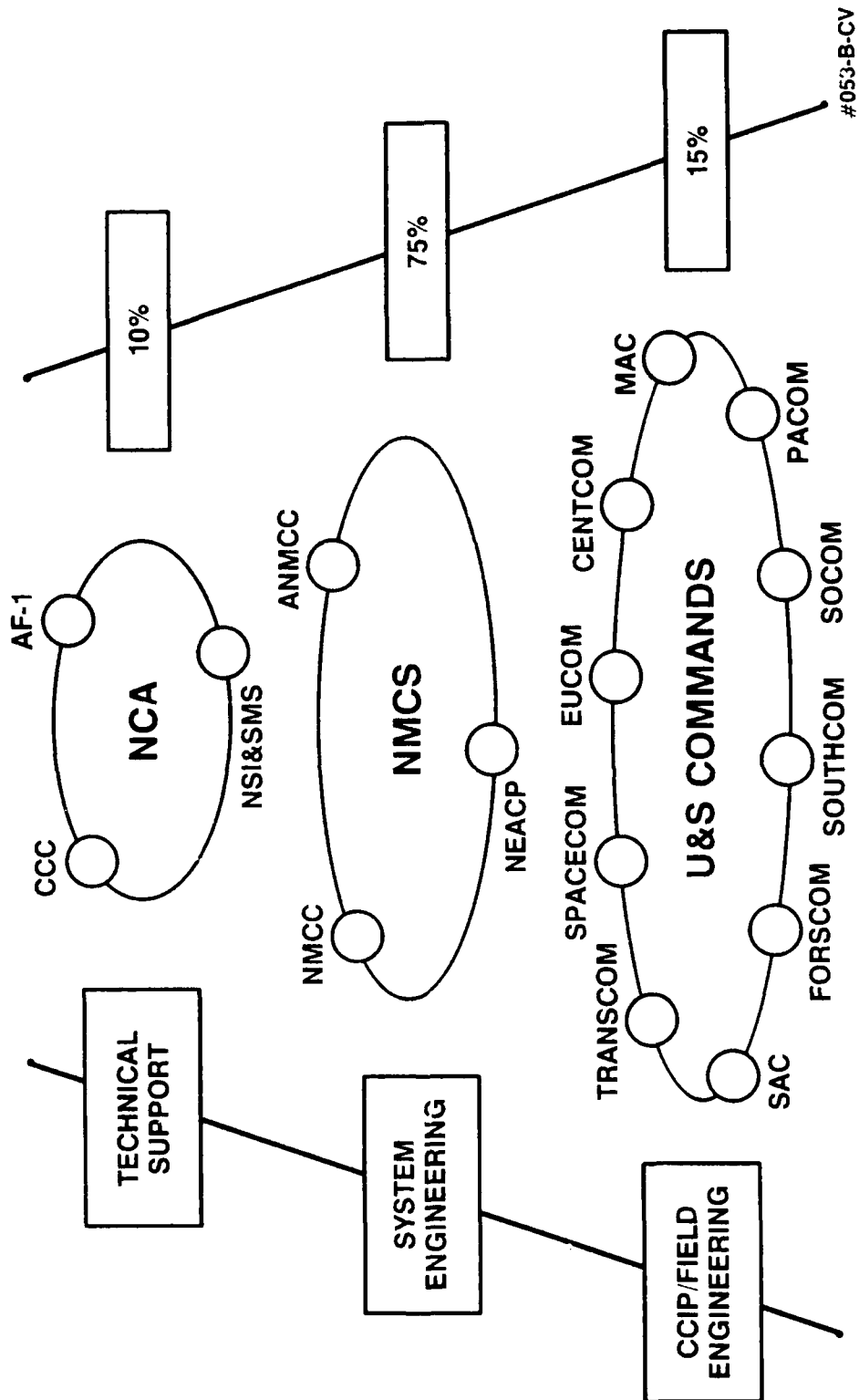
- TIGER TEAM VISIT TO USEUCOM (JAN 88)
- CENTCOM/SOCOM COMMAND CENTER UPGRADES (ON-GOING)
- MAC MODEL COMMAND CENTER
- DOD MULTI-LEVEL SECURITY PROTOTYPE
- CCIP CONFERENCE (MAY 88)
- MODULAR BUILDING CONCEPT
- GENERIC INFORMATION SYSTEMS MODULES
- COMMAND CENTER DESIGN HANDBOOK/EXPERT SYSTEMS CONVERSION
- EXTEND BEYOND FIXED COMMAND CENTERS
- EXPAND CCEL TO LAB/TEST BED

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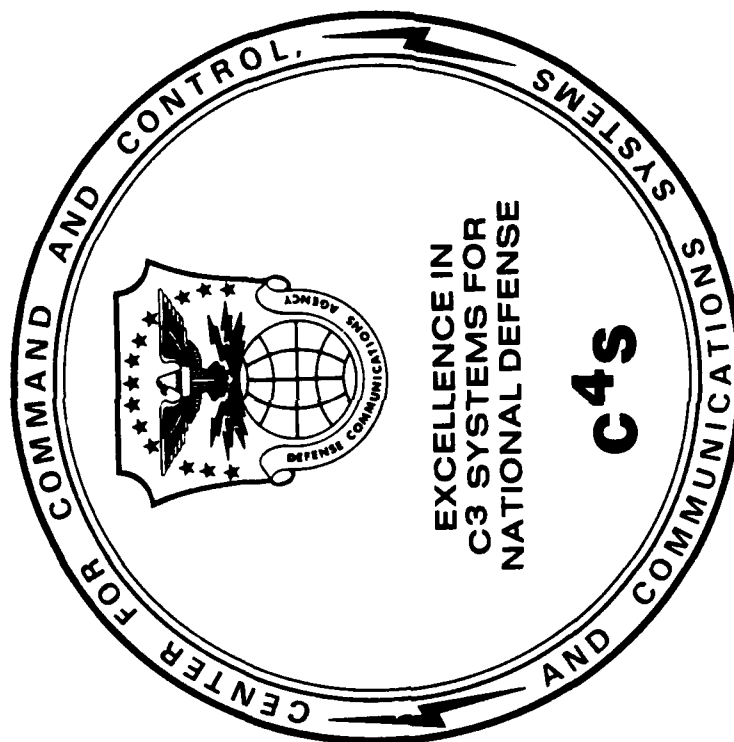
## **CCIP ISSUES**

- **CINC C2 INITIATIVES**
  - GOOD AND BAD
- **EVOLUTIONARY ACQUISITION**
  - NEED C/C ADVOCATE FOR RAPID PROTOTYPING PROCESS
- **RESOURCES TO WORK ISSUES**
  - SPATE OF EMERGING ISSUES
  - DROUGHT OF R & D DOLLARS

# COMMAND CENTER SYSTEMS PROGRAM



# METEOR BURST COMMUNICATIONS



#053-E-CV



## **DEVELOPMENTAL ENGINEERING**

- **MISSION**

- **APPLY EXISTING TECHNOLOGY THAT MAY HAVE HIGH PAYOFF AT AFFORDABLE COST TO SATISFY CURRENT OPERATIONAL NEEDS**

**AND**

- **DEVELOP ENGINEERING PROTOTYPES TO OBTAIN SERVICE AND CINC ACCEPTANCE TO EXPEDITE THE FIELDING OF NEW SYSTEMS THRU EVOLUTIONARY DEVELOPMENT**

- **AREAS OF INTEREST**

- **METEOR BURST COMMUNICATIONS**
- **RECONSTITUTED VLF/LF**
- **HARDENED ANTENNA TECHNOLOGY**
- **ADAPTIVE HF (STRESSCOM) CONNECTIVITY EVALUATION**
- **MULTI-MEDIA RELAY**

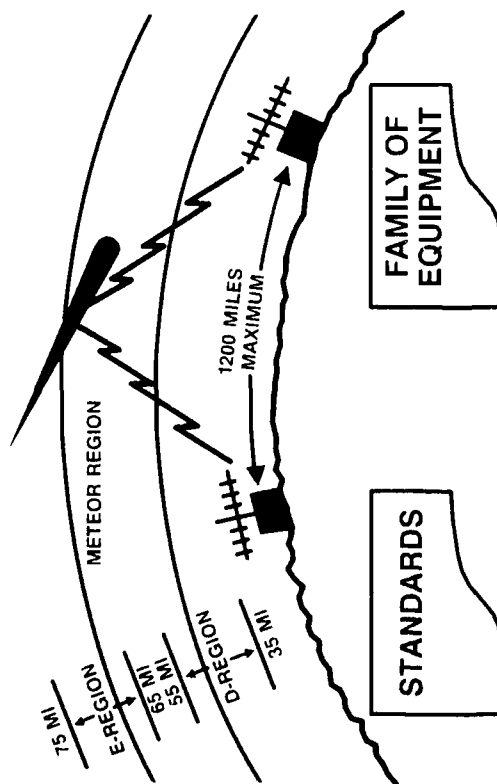
#053-E-CV

# METEOR BURST COMMUNICATIONS (MBC)

## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

- WHO: DoD
- WHAT MISSION: RECONSTITUTION, REMOTE SENSING
- HOW: PROVIDE COST EFFECTIVE METEOR BURST SYSTEMS
- WHY: LOW COST, LOW PROBABILITY OF INTERCEPT, SURVIVABILITY
- PRODUCTS: INTEROPERABILITY STANDARDS FAMILY OF EQUIPMENT



## CONTRACT DATA

N/A: EFFORT CURRENTLY  
ACCOMPLISHED WITH  
IN-HOUSE RESOURCES

## MILESTONES

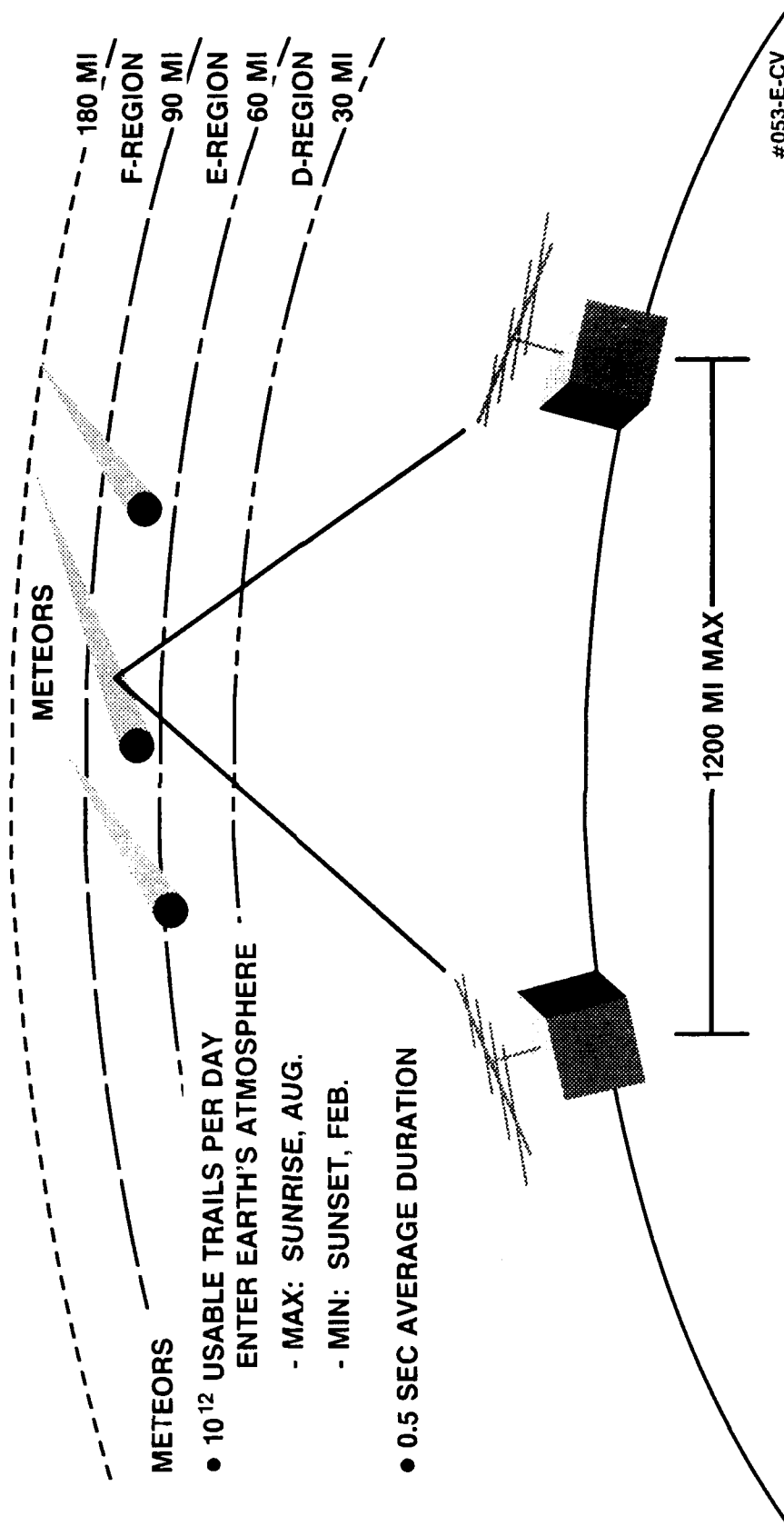
INITIAL CAPABILITY  
RECOMMENDATIONS ..... AUG 87

FAMILY OF EQUIPMENT ..... JUN 88

ADVANCED CAPABILITY  
RECOMMENDATIONS ..... SEPT 89

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# METEOR BURST COMMUNICATIONS (VERY HIGH FREQUENCY)



# METEOR BURST SYSTEMS

## EARLY SYSTEMS

- CANADIAN ——— JANET
- SHAPE TECHNICAL CENTER ——— COMET
- ALASKAN METEOR BURST COMMUNICATIONS SYSTEM

## CURRENT SYSTEMS

- DEPARTMENT OF AGRICULTURE SNOTEL NETWORK
- ALASKAN AIR COMMAND
- 25TH AIR DIVISION

## **WHY METEOR BURST COMMUNICATIONS?**

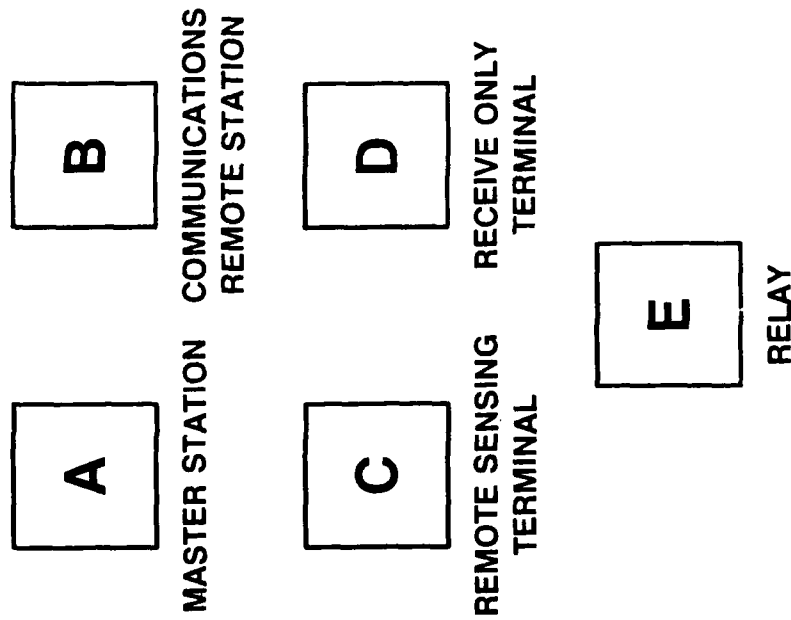
- **IMPROVED RECOVERY TIME IN DISTURBED ENVIRONMENT**
- **IMPROVED LOW PROBABILITY OF INTERCEPTION**
- **NOT DEPENDENT ON VULNERABLE SATELLITES**
- **EXTREMELY PREDICTABLE PROPAGATION**
- **HIGHLY COST-EFFECTIVE FOR LOW-VOLUME TRAFFIC APPLICATIONS OF DISADVANTAGED USERS**
- **BEST CHOICE, LAST-DITCH BACKUP IN MULTIMEDIA SYSTEMS**
- **LOW POWER DRAIN ALLOWS UNATTENDED SOLAR-POWERED REMOTES**
- **FULL PLATFORM APPLICATION - MANPACK TO AIRBORNE**

## **POTENTIAL MISSIONS**

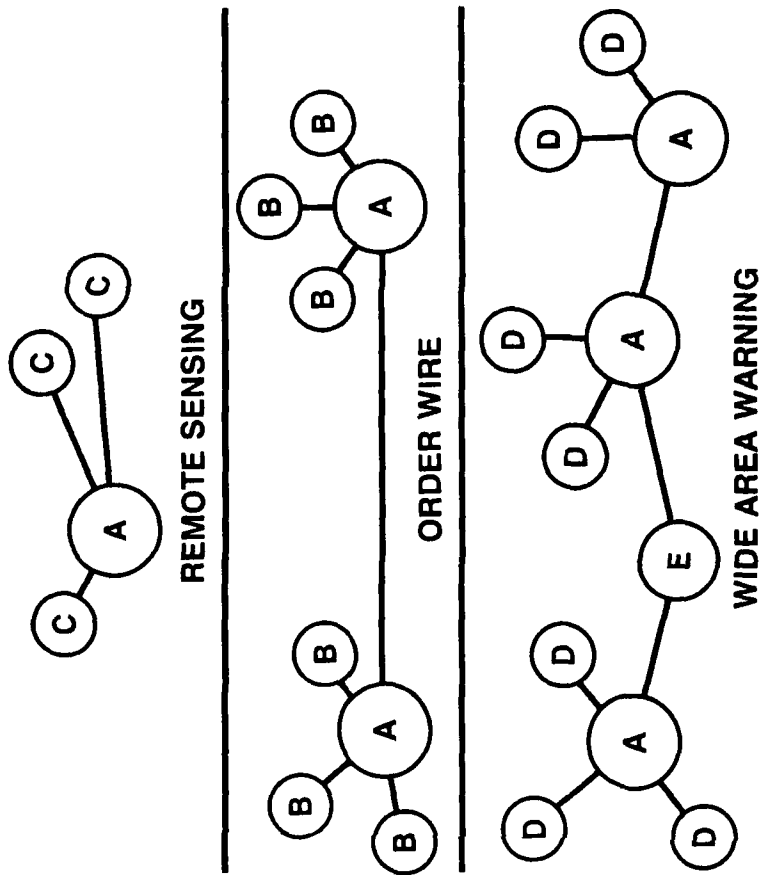
- **FORCE DIRECTION AND REPORTING**
- **RECONSTITUTION**
- **ORDER WIRES**
- **CONTINUITY OF COMMAND COMMUNICATIONS**
- **EMERGENCY ACTION MESSAGE BACKUP**

# METEOR BURST COMMUNICATIONS

## MAJOR SYSTEM COMPONENTS



## TYPICAL NETWORKS

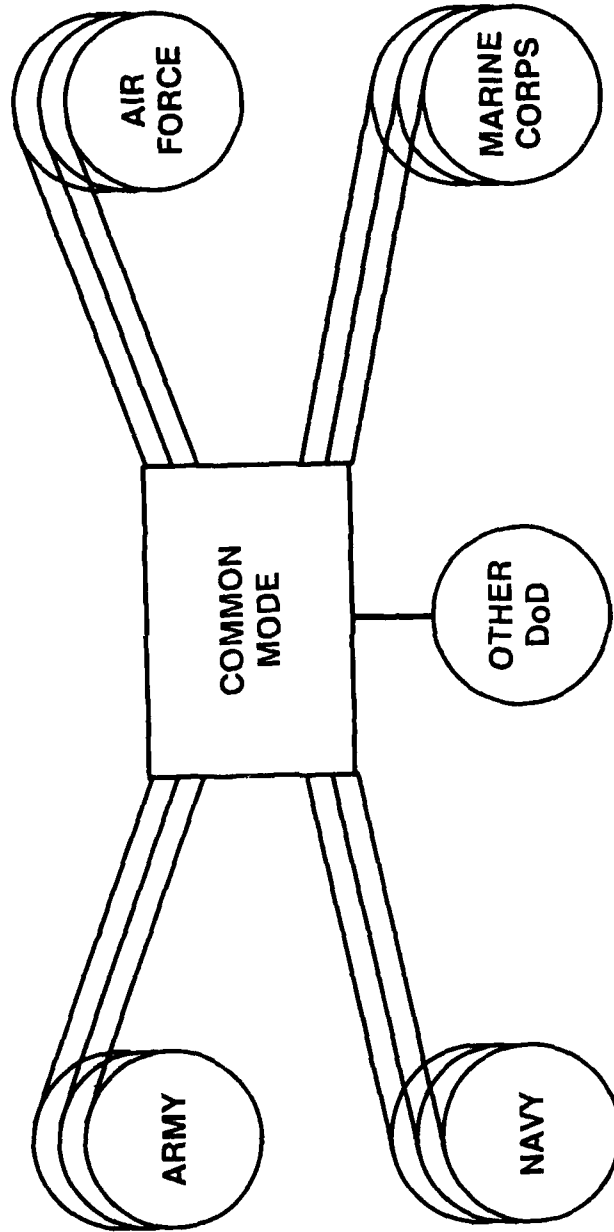


ALL PATHS 300 - 800 MILES

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# COMMON MODE CAPABILITY

- PROVIDES CONNECTIVITY BETWEEN COMMUNITIES



- ALLOWS EQUIPMENT INTERCHANGE/REPLACEMENT
- PERMITS USE OF DIFFERENT DEVELOPERS

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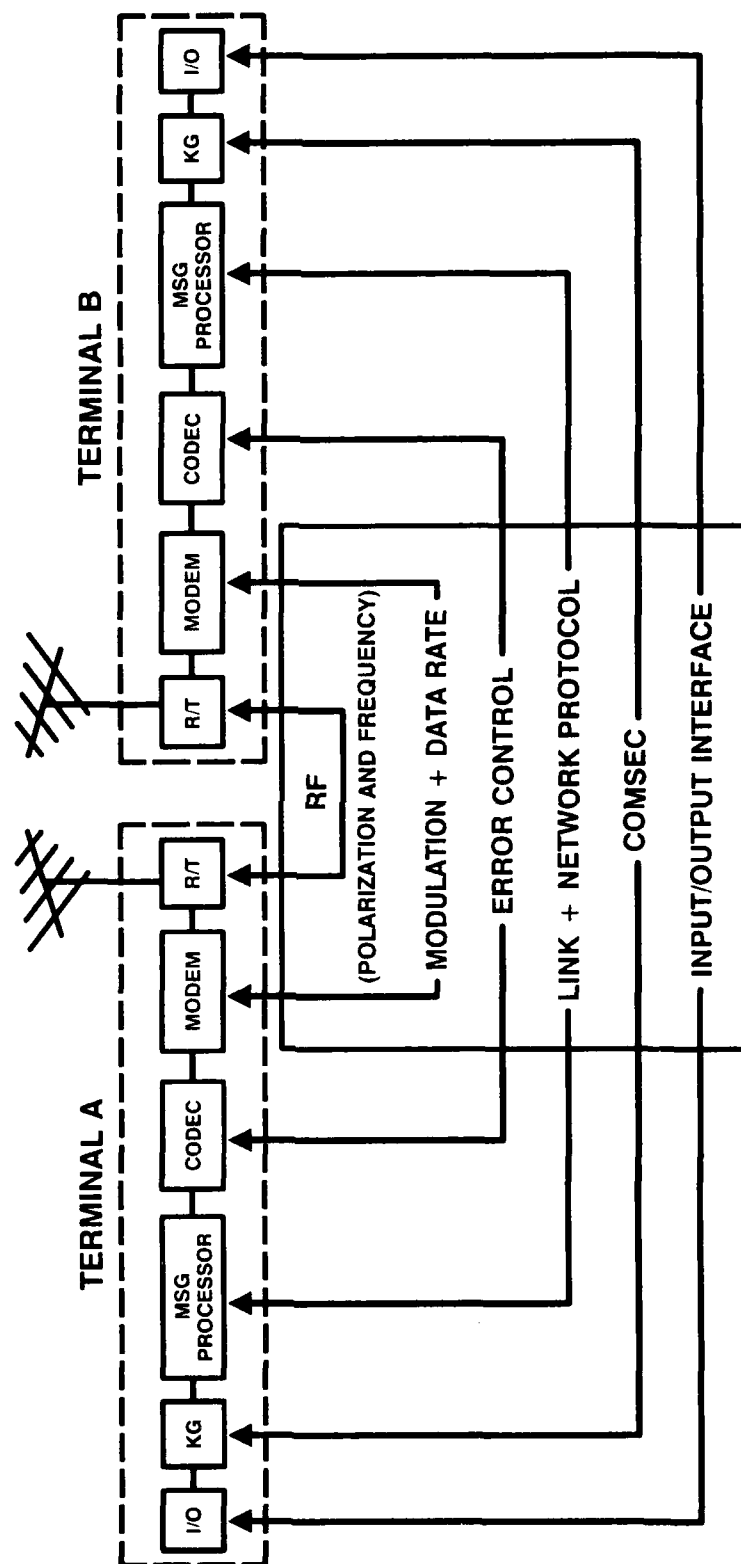


## **OJCS DIRECTION**

- **DEVELOP A SET OF INTEROPERABILITY STANDARDS USING A TWO PHASE APPROACH**
  - INITIAL CAPABILITY
  - ADVANCED CAPABILITY
- **IDENTIFY A FAMILY OF EQUIPMENT FEATURING A LOW COST TERMINAL**

# METEOR BURST COMMUNICATIONS INTEROPERABILITY STANDARDS

## INITIAL CAPABILITY



MATING FUNCTIONS REQUIRED FOR INTEROPERABILITY

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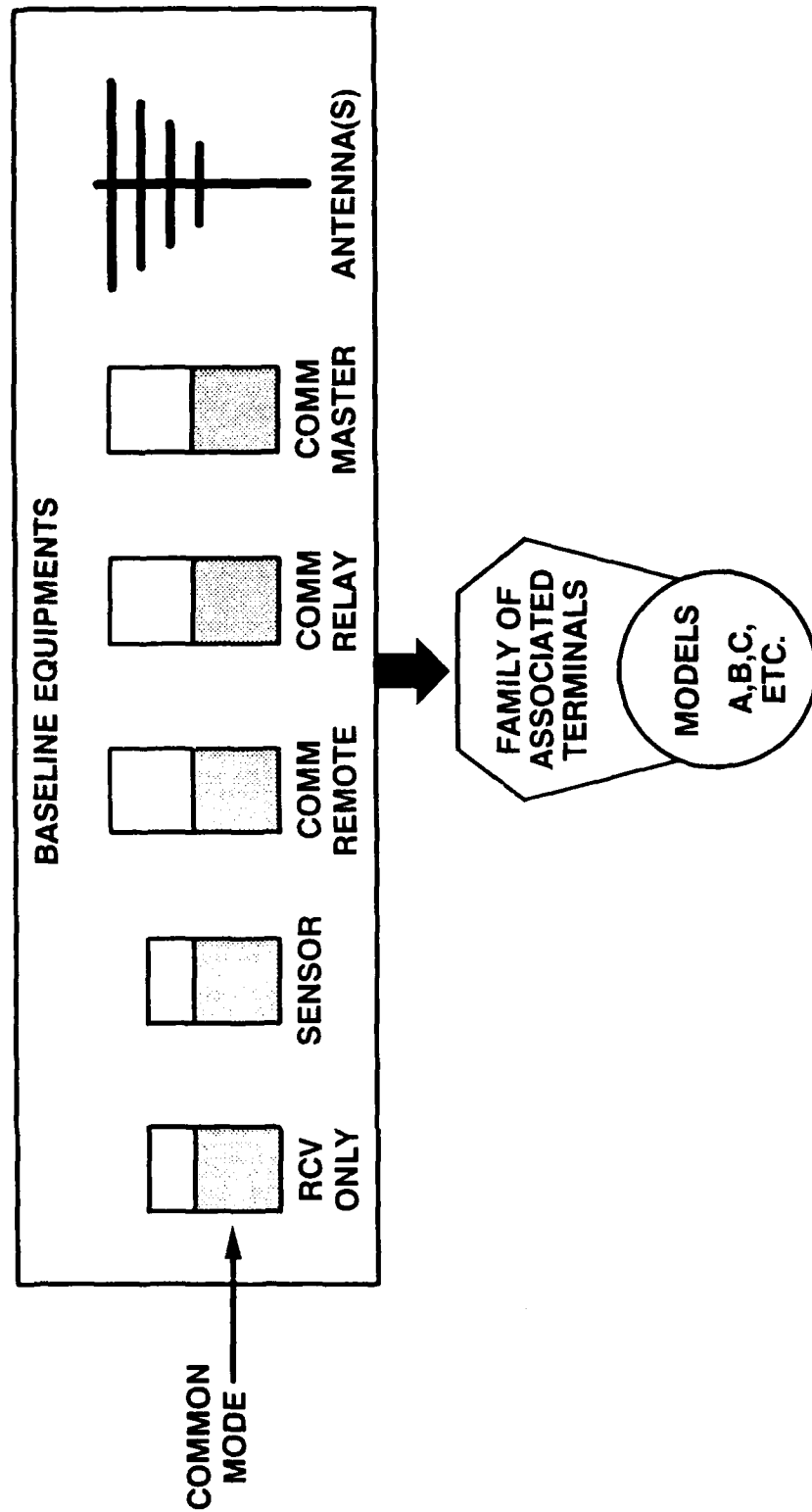
# METEOR BURST COMMUNICATIONS STANDARDS

## INITIAL INTEROPERABILITY STANDARD RECOMMENDATIONS

FUNCTION	COMMUNICATION	REMOTE SENSING
POLARIZATION	HORIZONTAL	HORIZONTAL
FREQUENCY	30-54 OR 30-88 (5 kHz STEPS) 1 PPM, MSTR, 2 PPM RMT	30-54
MODULATION	DBPSK	DBPSK
BIT RATE	8 KBPS	4 KBPS
ERROR CONTROL	ARQ, GO-BACK-N ANSI CRC (16)	ARQ, STOP-AND-WAIT ANSI CRC (16)
LINK PROTOCOL	HALF DUPLEX, FULL DUPLEX, BROADCAST	POLLING
NETWORK PROTOCOL	LINKED STARS, TIME-TO-LIVE, PRIORITY	SINGLE STAR
COMSEC	KG 84 NEAR TERM	N/A
INPUT/OUTPUT INTERFACE	RS 232 SERIAL 300 BAUD, ASCII	SENSOR ANALOG/DIGITAL INTERFACE

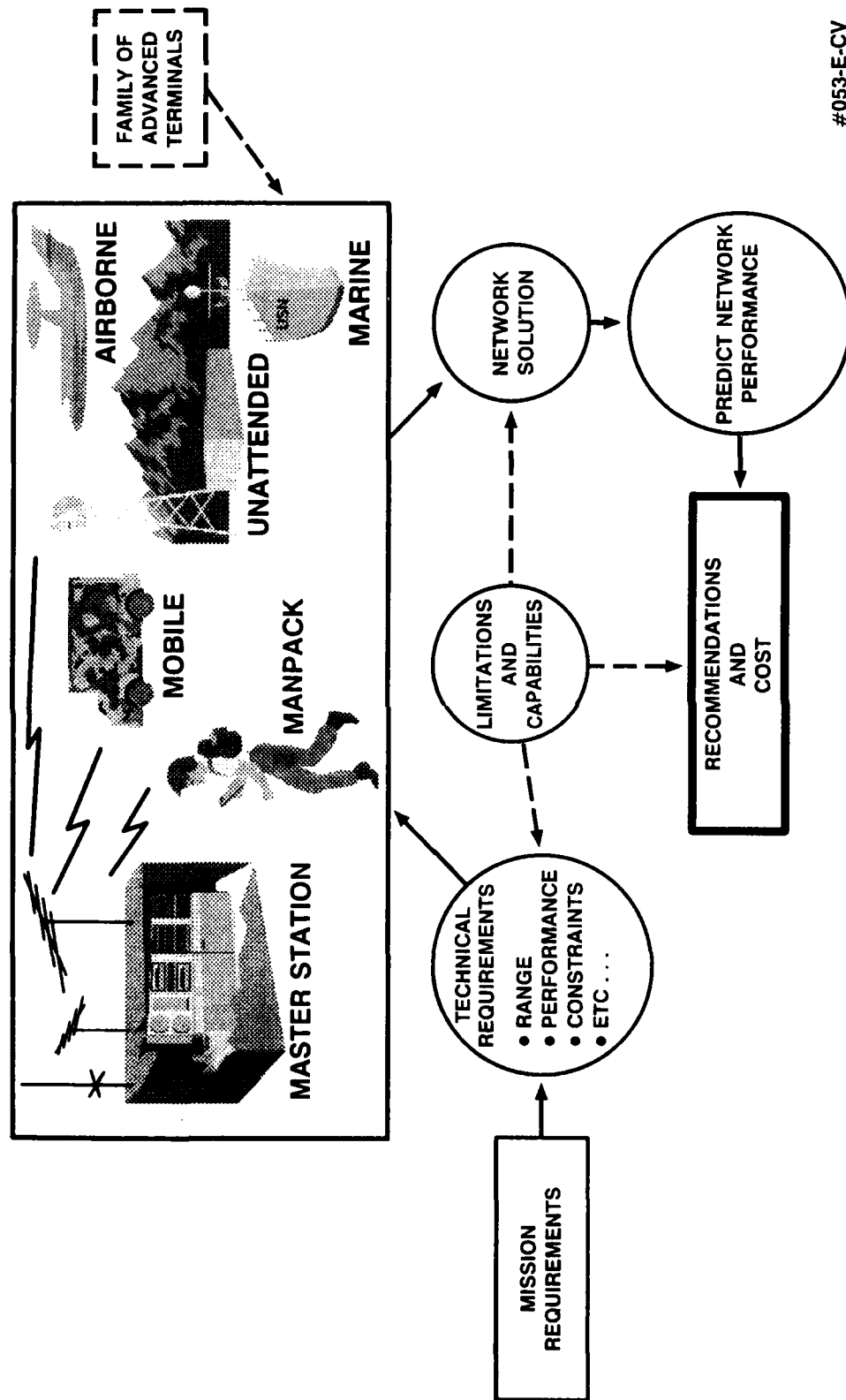
#053-E-CV

# METEOR BURST COMMUNICATIONS MISSION ORIENTED FAMILY OF EQUIPMENT



#053-E-CV

# USING THE MISSION ORIENTED FAMILY OF EQUIPMENT



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# **METEOR BURST COMMUNICATIONS CHALLENGE TO INDUSTRY**

- PROVIDE INPUT TO STANDARDS DEVELOPMENT
- PROVIDE ADDITIONAL BREAKPOINTS FOR LOW COST TERMINALS
- BE A SOURCE FOR AFFORDABLE EMERGING TECHNOLOGIES
- HELP AVOID "GOLD PLATING"
- PROVIDE SOLUTIONS FOR ENHANCING CONNECTIVITY IN STRESSED ENVIRONMENTS
  - MODULATION
  - DATA RATES
  - FORWARD ERROR CORRECTION
  - NETWORKING
  - EMBEDDED COMSEC

053-58-FEB 88-RC

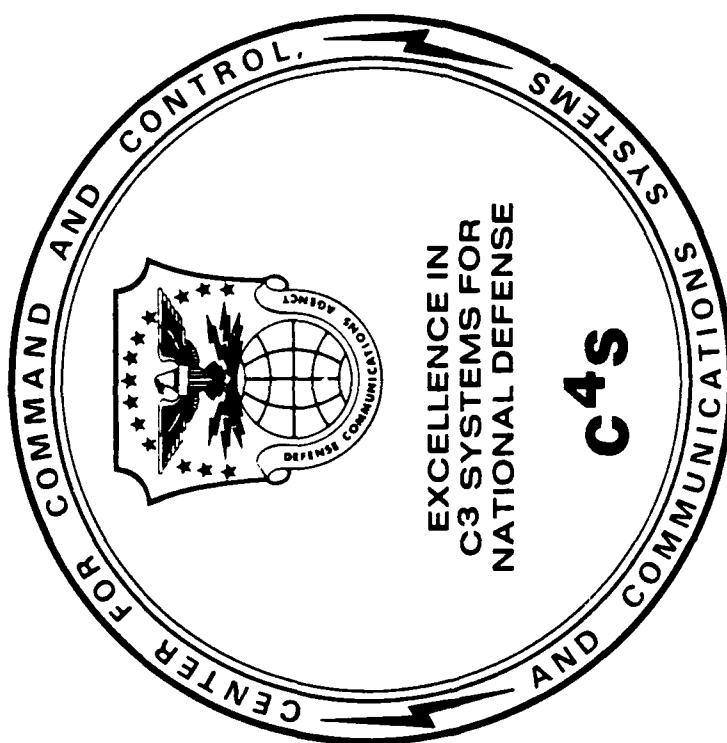
# **PROGRAM SUMMARY**

**BY END OF 1988:**

- **SERVICES APPROVED INITIAL  
CAPABILITY STANDARD**
- **DEFINITION OF A MISSION ORIENTED  
FAMILY OF EQUIPMENT**
- **CONTINUING EFFORTS TO DEFINE AN  
ADVANCED CAPABILITY STANDARD**

053E-59-FEB 88-RC

# MILITARY SATELLITE COMMUNICATIONS SYSTEMS



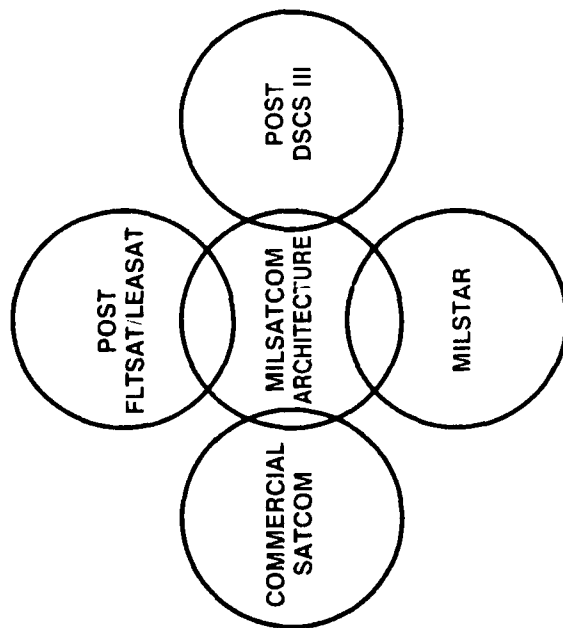
#053-F-CV



# FUNCTIONAL DESCRIPTION OF SYSTEM

## SUPPORTS -

- WHO: ALL DoD
- WHAT MSN: C3I FOR QUALIFYING DoD
- HOW: PLANNING FOR FUTURE MILSATCOM SYSTEMS
- WHY: TO SATISFY EVOLVING NEEDS
- PRODUCTS: ARCHITECTURES, TECHNICAL ANALYSES  
TRADEOFF STUDIES, REQUIREMENTS  
VALIDATIONS, THREAT SCENARIO  
TECHNOLOGY ASSESSMENTS
- DELIVERABLES: STUDIES, COMPUTER MODELS, COST  
ANALYSIS, FREQUENCY ANALYSIS



## CONTRACT DATA

CONTRACTING AGENCY: DCA  
 USER COMMAND/AGENCY: DoD  
 POINT OF CONTACT: DR. DRUMMOND  
 KEY LOCATIONS: WORLDWIDE

CONTRACT PERIOD(S): DOLLAR VALUE  
 DEC 87 - DEC 88 \$2.0M

CONTRACTOR: M-A/COM GOVT SYSTEMS

## KEY MILESTONES

- ARCHITECTURE UPDATES - ANNUALLY
- TECHNOLOGY PROJECTION - SEP 1988
- SHF MODEM ALTERNATIVES - DEC 1988
- DSCS BLOCK C - JAN 1989
- LONG RANGE ARCH - SEP 1989
- EHF PACKAGE DESIGN - SEP 1989

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## **MSO MISSION AND FUNCTIONS**

### **MISSION:**

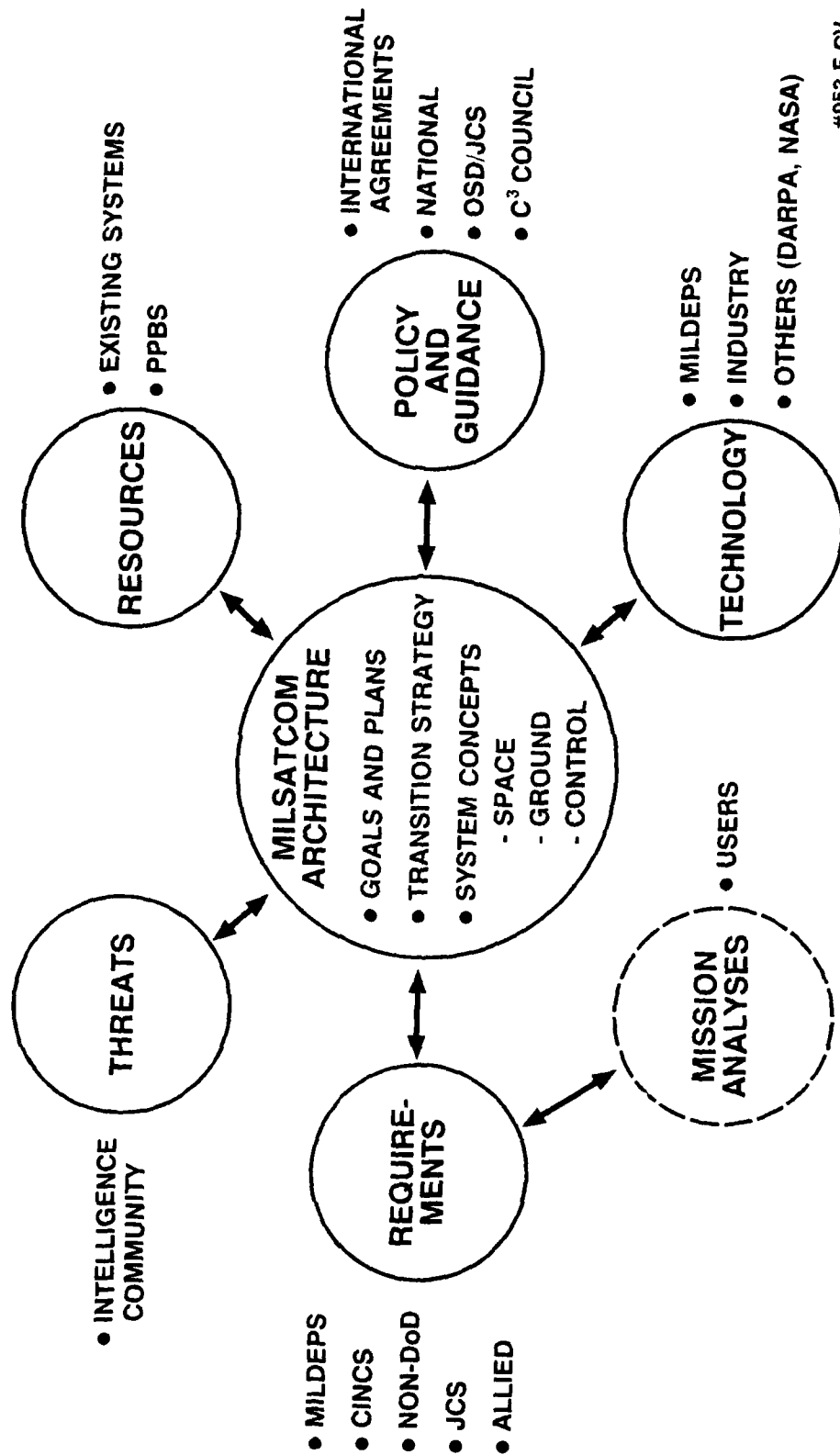
- ESTABLISH THE DoD-WIDE MILSATCOM ARCHITECTURE
- SERVE AS PRINCIPAL ADVISOR TO DIRECTOR DCA, ASD (C³I), AND JCS (J6) ON DoD SATELLITE COMMUNICATIONS

### **FUNCTIONS:**

- PERFORM USER MISSION AND REQUIREMENTS ANALYSES
- ANALYZE THREAT PROJECTIONS
- DEVELOP SYSTEM TRANSITION PLANS
- RECOMMEND FUNDING AND POLICY GUIDELINES
- PROVIDE TECHNOLOGY ASSESSMENTS

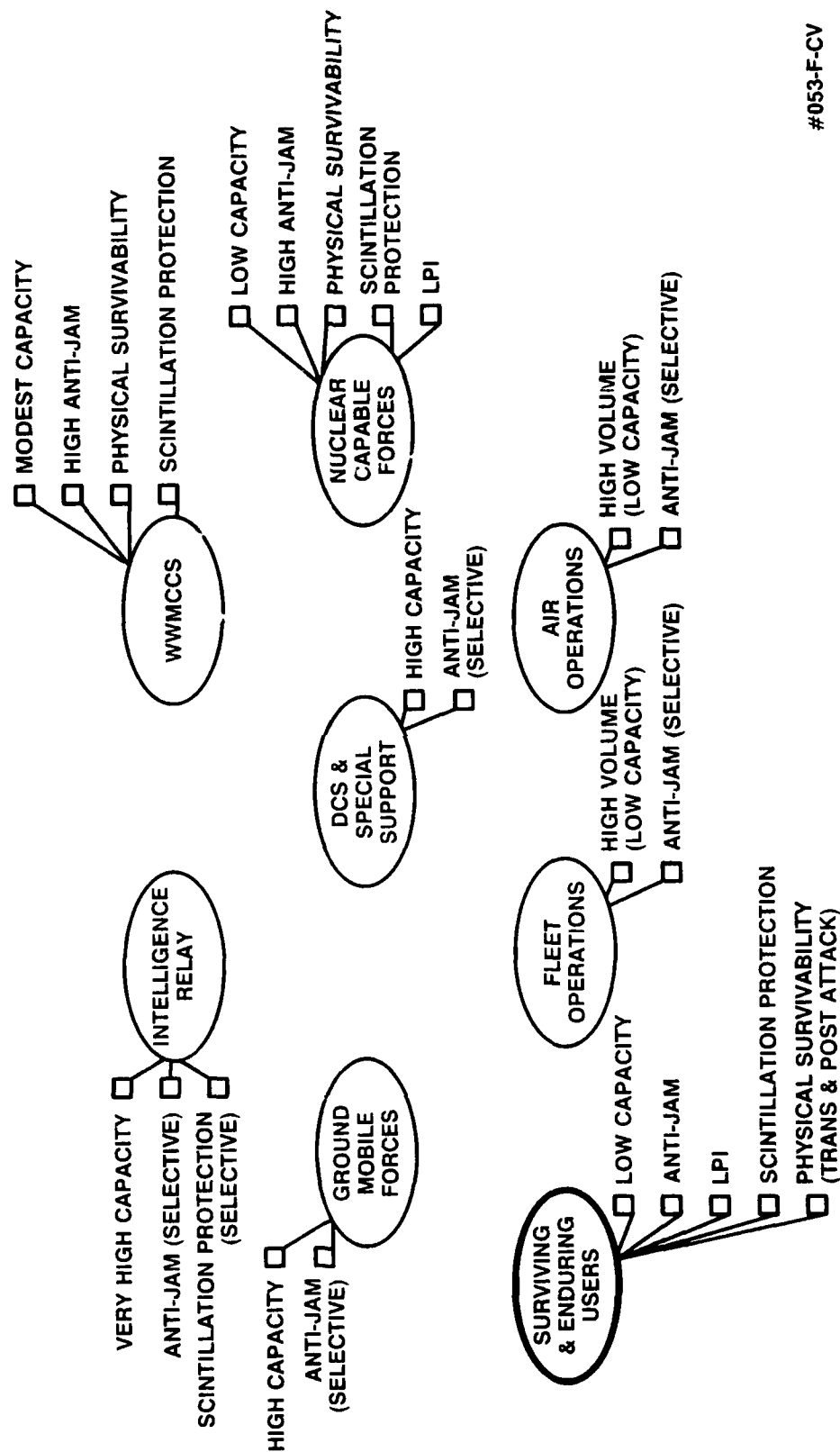
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# MILSATCOM ARCHITECTURE DEVELOPMENT PROCESS



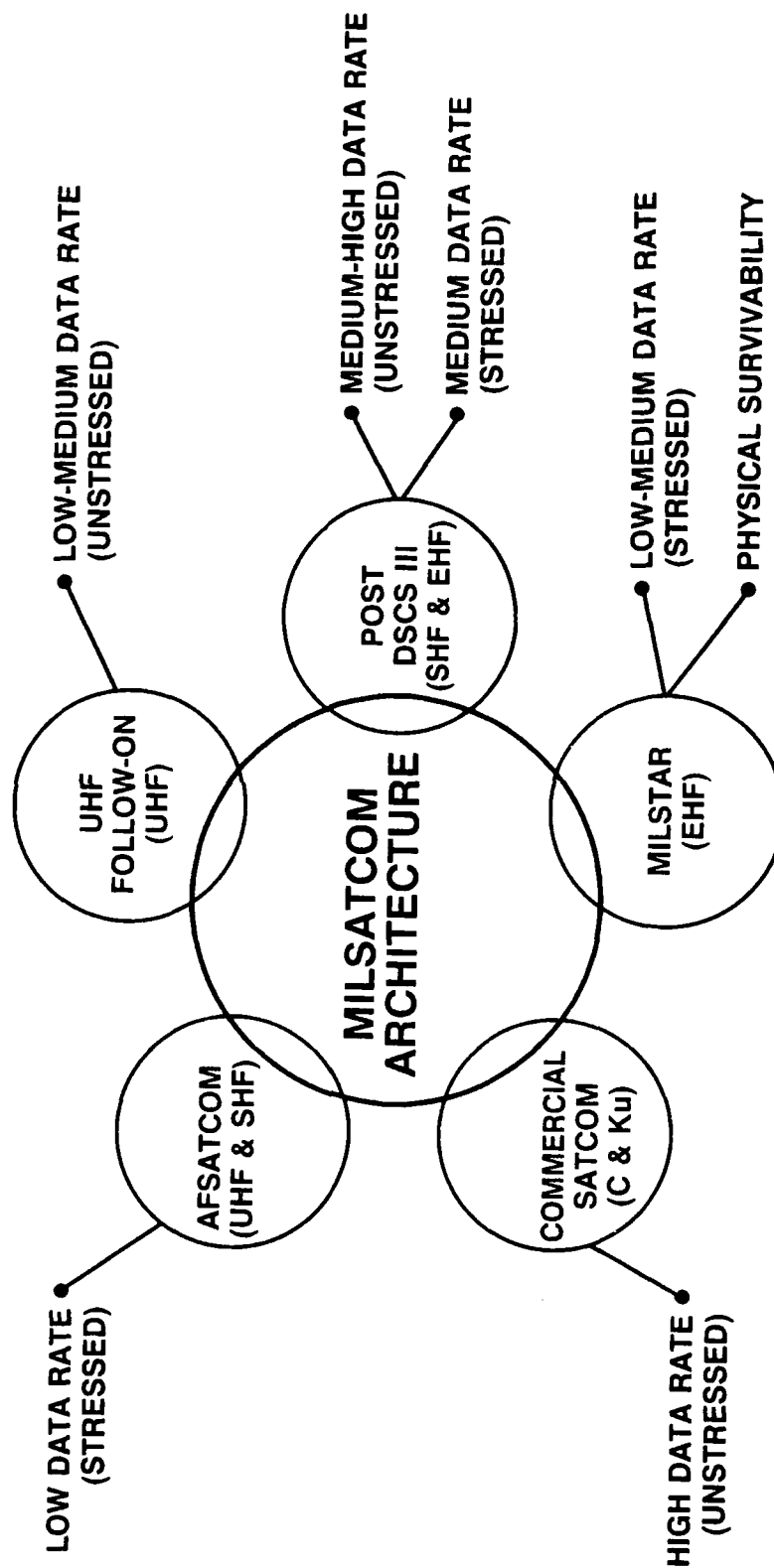
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# MILSATCOM USER COMMUNITY AND REQUIREMENTS



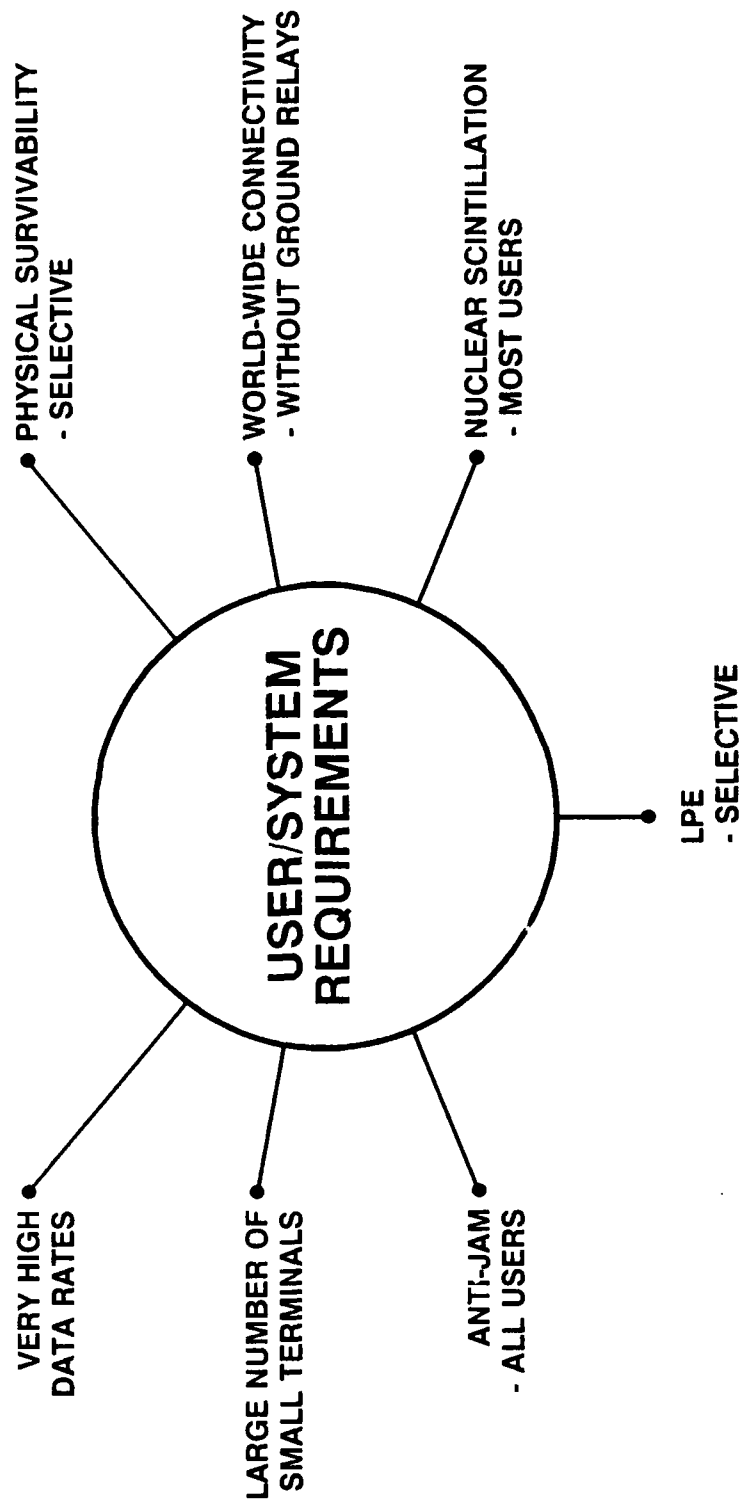
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# A COHERENT MILSATCOM ARCHITECTURE FOR THE 1990'S



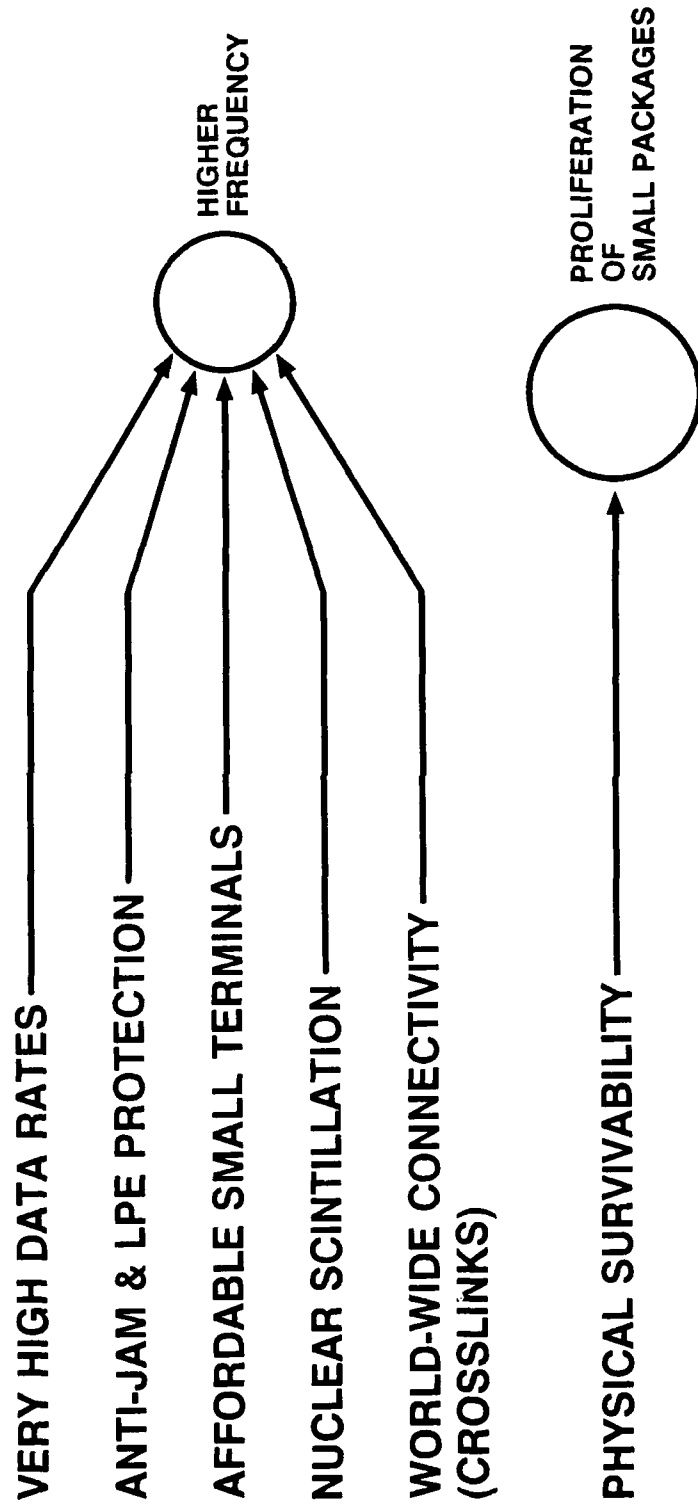
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# FUTURE REQUIREMENT TRENDS



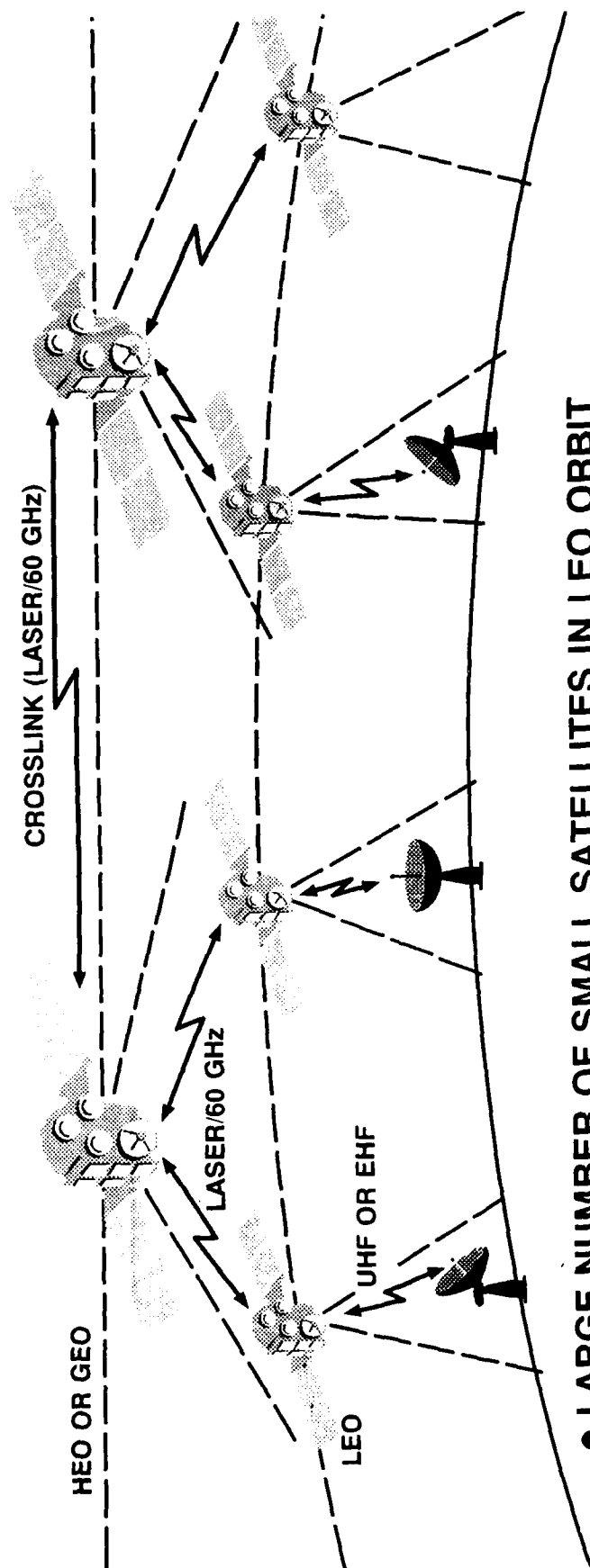
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# TECHNOLOGY CHALLENGE



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# A CANDIDATE 2010 MILSATCOM SYSTEM



- LARGE NUMBER OF SMALL SATELLITES IN LEO ORBIT
- SMALL NUMBER OF LARGE SATELLITES IN GEO/HEO ORBIT
- CROSSLINKS (60GHz/LASER) BETWEEN LEO AND GEO/HEO SATELLITES
- USER TERMINALS ARE SMALL (UHF OR EHF)
- HIGH ANTI-JAM AND PHYSICAL SURVIVABILITY

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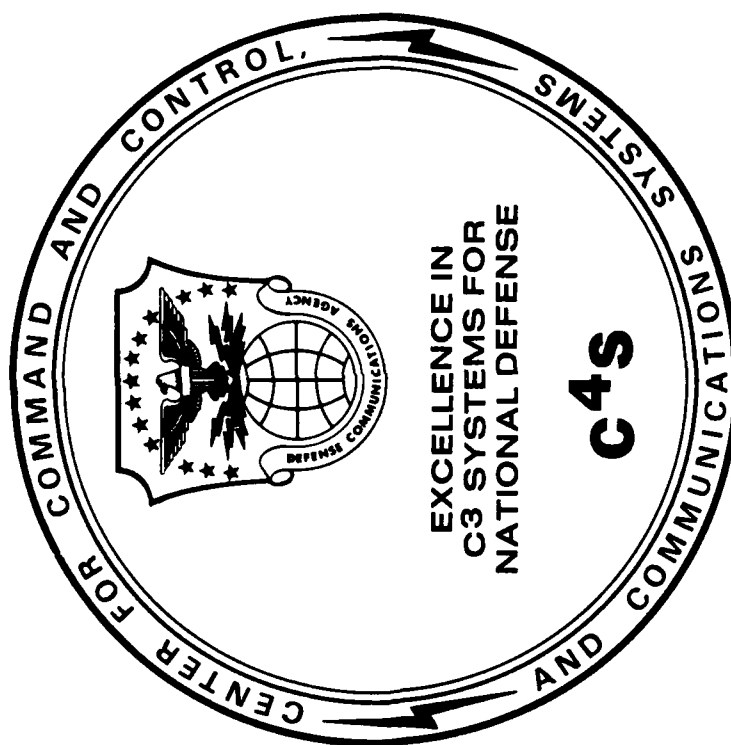


## **SUMMARY**

- **CONTINUING NEED FOR MILSATCOM SYSTEMS  
IN THE FUTURE (BEYOND 2000)**
  - GROWTH IN USER REQUIREMENT
  - THREAT INCREASE
- **IMPLEMENTATION OF ADVANCED MILSATCOM CONCEPTS  
WILL REQUIRE DEVELOPMENT AND USE OF NEW  
TECHNOLOGIES**
  - SPACECRAFT
  - TERMINALS

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# 21ST CENTURY DCS ARCHITECTURE



#058-C-CV

# 21ST CENTURY DCS ARCHITECTURE

<p>THE 21ST CENTURY DCS ARCHITECTURE DESCRIBES THE 1995-2005 DCS AND THE SERVICES PROVIDED.</p> <table> <tr> <th>SERVICES</th><th>SUBSYSTEMS</th></tr> <tr> <td>VOICE</td><td>SWITCHING</td></tr> <tr> <td>DATA</td><td>TRANSMISSION</td></tr> <tr> <td>VIDEO</td><td>TERMINALS</td></tr> <tr> <td>MESSAGE</td><td>CONTROL</td></tr> </table>	SERVICES	SUBSYSTEMS	VOICE	SWITCHING	DATA	TRANSMISSION	VIDEO	TERMINALS	MESSAGE	CONTROL	<p>FUNCTIONAL DESCRIPTION OF SYSTEM SUPPORTS -</p> <ul style="list-style-type: none"> <li>• WHO: DOD COMMON USER COMMUNITY</li> <li>• WHAT MSN: COMMUNICATIONS</li> <li>• HOW: TRANSMISSION &amp; SWITCHING</li> <li>• WHY: ECONOMY, SURVIVABILITY, SECURITY</li> <li>• PRODUCTS: 1995 DCS ARCHITECTURE, 2005 GOAL DCS ARCHITECTURE, DCS TRANSITION STRATEGY</li> <li>• DELIVERABLES: TECHNICAL REPORTS</li> </ul>
SERVICES	SUBSYSTEMS										
VOICE	SWITCHING										
DATA	TRANSMISSION										
VIDEO	TERMINALS										
MESSAGE	CONTROL										
<p>CONTRACT DATA</p> <p>CONTRACTING AGENCY: DCA, WASH, D.C.  DCA POINT OF CONTACT: DR. SCHER, C4S/A700  KEY LOCATIONS: ARLINGTON, VA  CONTRACTOR: BOOZE-ALLEN HAMILTON</p> <table> <tr> <th>CONTRACT PERIODS:</th><th>DOLLAR VALUE</th></tr> <tr> <td>DEC 87 - DEC 88</td><td>\$1 M</td></tr> <tr> <td>DEC 88 - DEC 89</td><td>\$1 M</td></tr> <tr> <td>DEC 89 - DEC 90</td><td>\$1 M</td></tr> </table>	CONTRACT PERIODS:	DOLLAR VALUE	DEC 87 - DEC 88	\$1 M	DEC 88 - DEC 89	\$1 M	DEC 89 - DEC 90	\$1 M	<p>KEY MILESTONES:</p> <p>CONTRACT AWARD - DEC 1987  1995 DCS ARCHITECTURE REPORT - DEC 1988  2005 DCS ARCHITECTURE REPORT - DEC 1989  DCS TRANSITION STRATEGY - DEC 1990</p> <p>#058-C-CV</p>		
CONTRACT PERIODS:	DOLLAR VALUE										
DEC 87 - DEC 88	\$1 M										
DEC 88 - DEC 89	\$1 M										
DEC 89 - DEC 90	\$1 M										

# THE DCS ARCHITECTURAL SPACE

TYPES OF SERVICE					
	VOICE	DATA	MESSAGE	WIDEBAND	VIDEO CONFERENCE
CONUS	SURVIVABILITY CAPACITY SECURITY COST FEATURES				
EUROPE	SURVIVABILITY CAPACITY SECURITY COST FEATURES				
KOREA	SURVIVABILITY CAPACITY SECURITY COST FEATURES				
SWA	SURVIVABILITY CAPACITY SECURITY COST FEATURES				
TORANS	SURVIVABILITY CAPACITY SECURITY COST				
REGIONS OF THE WORLD					

#058-C-CV

# **NEAR-TERM ARCHITECTURAL URGENCIES**

## **(OUR ARCHITECTURAL PROGRAM IS LATE!!)**

### **SYSTEM DRIVEN**

- **DEFENSE DATA NETWORK CAPACITY EXPANSION**
- **CONUS MILNET NUCLEAR SURVIVABILITY**
- **FORMAL MESSAGE SYSTEM**
- **NATO TRANSMISSION RATIONALIZATION**

### **OPERATIONALLY DRIVEN**

- **SURVIVABILITY (EUROPE, KOREA, TRANSOCEANIC)**
- **ECONOMIES (DEFENSE DATA NETWORK PORT CHARGES)**

# **MID-TERM ARCHITECTURAL ISSUES**

**(WE SHOULD START NOW!!)**

## **SYSTEM DRIVEN**

- **DEFENSE SWITCHED NETWORK WESTHEM FUNCTIONAL SPECIFICATION**
- **SECURE VOICE TERMINAL EVOLUTION**
- **WIDEBAND SOLUTIONS**
- **MILSATCOM UTILIZATION**

## **OPERATIONALLY DRIVEN**

- **SOUTHWEST ASIA SURVIVABILITY**
- **ECONOMIES (DEDICATED CIRCUITS, O&M COSTS)**

## **SOME MAJOR UNCERTAINTIES**

- **RATE OF PENETRATION OF MARKETPLACE BY THE INTEGRATED SERVICES DIGITAL NETWORK**
- **DISCONTENT WITH, AND PROCUREMENT RATE OF, STU-III SECURE VOICE TERMINALS**
- **RATE OF WIDEBAND INTELLIGENCE EXPLOSION**
- **RATE OF AVAILABILITY OF MULTI-LEVEL SECURITY**

## **FINAL MESSAGE**

- **COMMERCIAL LONG-HAUL CARRIERS AND INTEGRATING CONTRACTORS**
  - INFORM US OF YOUR FUTURE PLANS
  - LEARN ABOUT DCS NEEDS
- **HARDWARE DEVELOPERS**
  - ADVISE US OF YOUR PRODUCTS
  - SEARCH FOR A MARKET NICHE
- **STUDY AND ANALYSIS CONTRACTORS**
  - POSTURE YOURSELVES FOR OUR 1990 RECOMPETITION
  - ADVISE US OF YOUR CAPABILITIES BEFORE THE ACQUISITION PROCESS COMMENCES



# **MAJOR CONTRACTUAL EFFORTS (CURRENT)**

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA	DEFENSE-WIDE SYSTEMS SETA (1ST YEAR)	BAH	\$1.2M	DEC 87 - DEC 88
	TASKS:			
	- 1995 DCS ARCHITECTURE			
	- CONUS DDN SURVIVABILITY			
	- MESSAGE HANDLING SERVICES			
	DEFENSE-WIDE SYSTEMS SETA (2ND YEAR)	BAH	\$1.0M	DEC 88 - DEC 89
	DEFENSE-WIDE SYSTEMS SETA (3RD YEAR)	BAH	\$1.2M	DEC 89 - DEC 90

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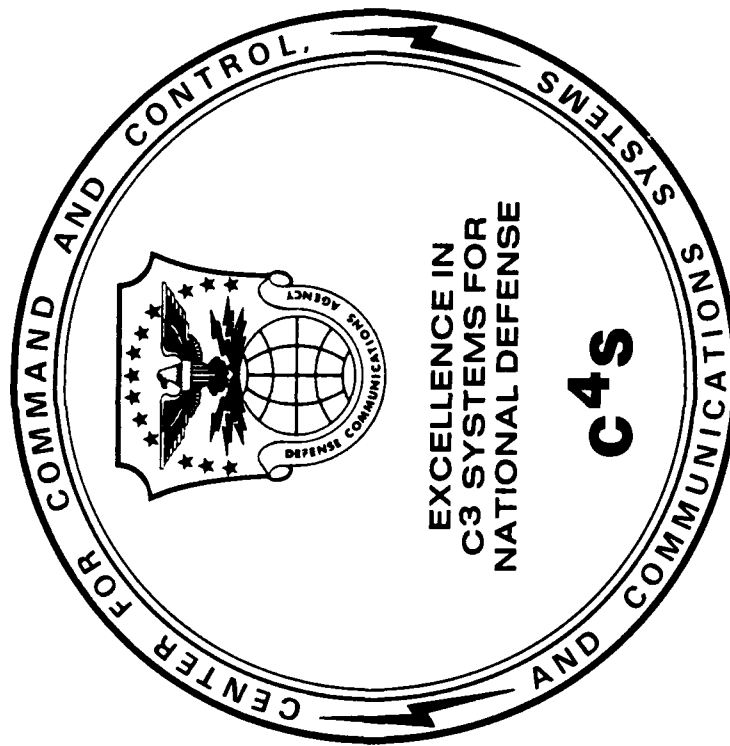
# MAJOR CONTRACTUAL EFFORTS (FUTURE)

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
DEFENSE-WIDE SYSTEMS SUPPORT	\$3 - \$4M	FALL, 1989	DEC 90 - DEC 93

## TASKS:

- WIDEBAND COMMUNICATIONS  
ARCHITECTURE
- WORLD-WIDE SECURE  
COMMUNICATIONS ARCHITECTURE
- DCS ARCHITECTURE AND  
TRANSITION REFINEMENT

# US TRANSCOM C3 ARCHITECTURE



#058-C-CV

# USTRANSCOM C3 ARCHITECTURE

THE USTRANSCOM C3I ARCHITECTURE PLANS  
THE FUTURE C3I SYSTEM FOR DEFENSE  
TRANSPORTATION

## USTRANSCOM

MILITARY SEALIFT COMMAND	MILITARY TRANSPORTATION MANAGEMENT CENTER	MILITARY SEALIFT COMMAND

ESTABLISHED 15 APRIL 1987  
CONSOLIDATED AIR, LAND, AND SEA  
TRANSPORTATION UNDER ONE DOD MANAGER

## SUPPORTS -

- WHO: USTRANSCOM/J6
- WHAT MSN: DOD MOBILIZATION/  
TRANSPORTATION
- HOW: AIR, LAND, AND SEA
- WHY: IMPROVE THE MOBILITY C3 SYSTEM
- PRODUCTS: C3 ARCHITECTURE, C3 EVALUATION
- DELIVERABLES: TECHNICAL REPORTS

## CONTRACT DATA

CONTRACTING AGENCY: DCA, WASH, DC  
POINT OF CONTACT: DR. SCHER, C4S/A700  
KEY LOCATIONS: SCOTT AFB, IL AND  
ARLINGTON, VA

FUNDING PROBABILITY: 50%

CONTRACT PERIOD(S): DOLLAR VALUE

OCT 88 - SEP 91 \$6.0M  
OCT 91 - SEP 93

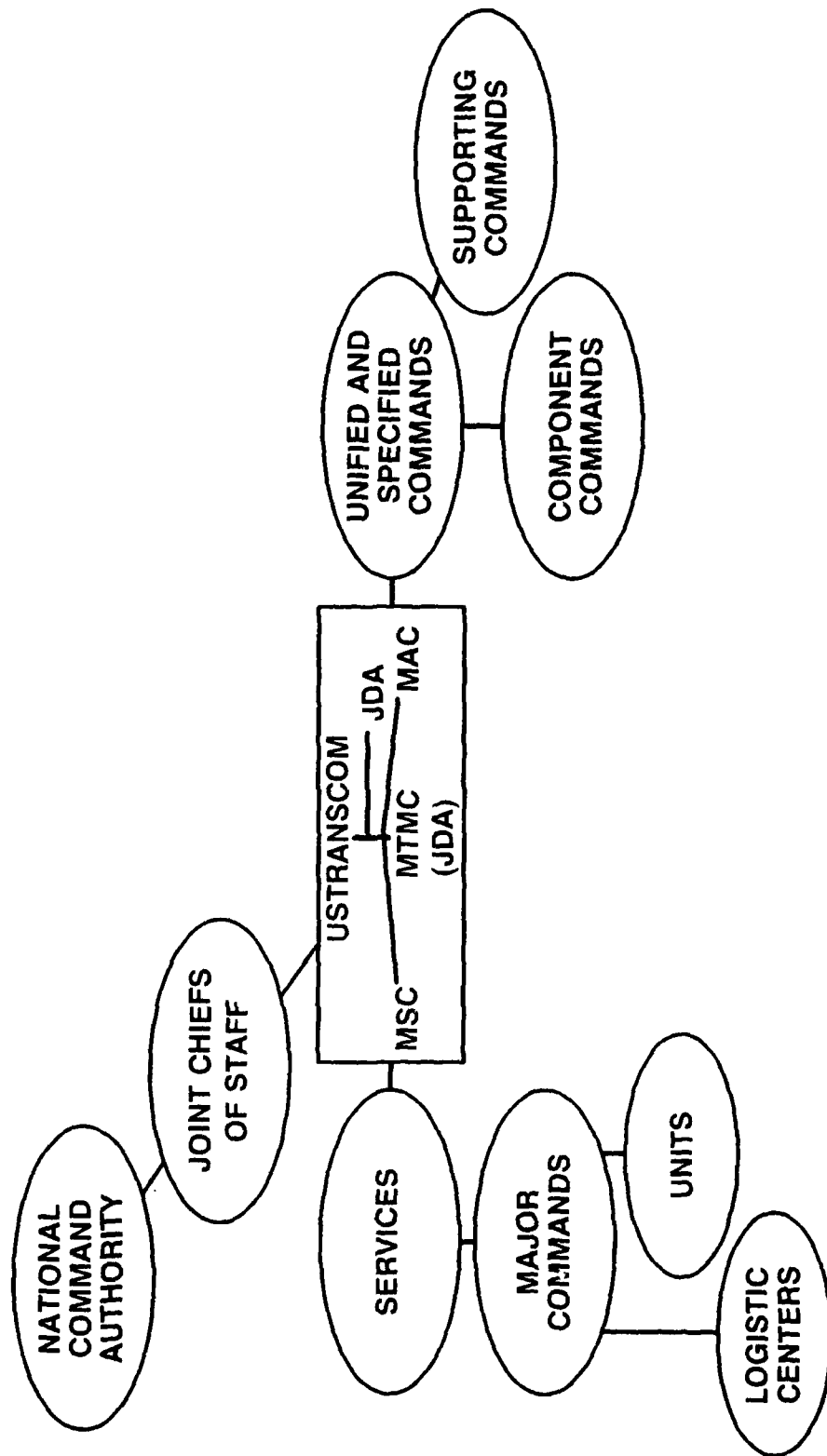
## KEY MILESTONES (RFI, RFP, ETC.)

RFP RELEASE APR 88

CONTRACT AWARD OCT 88

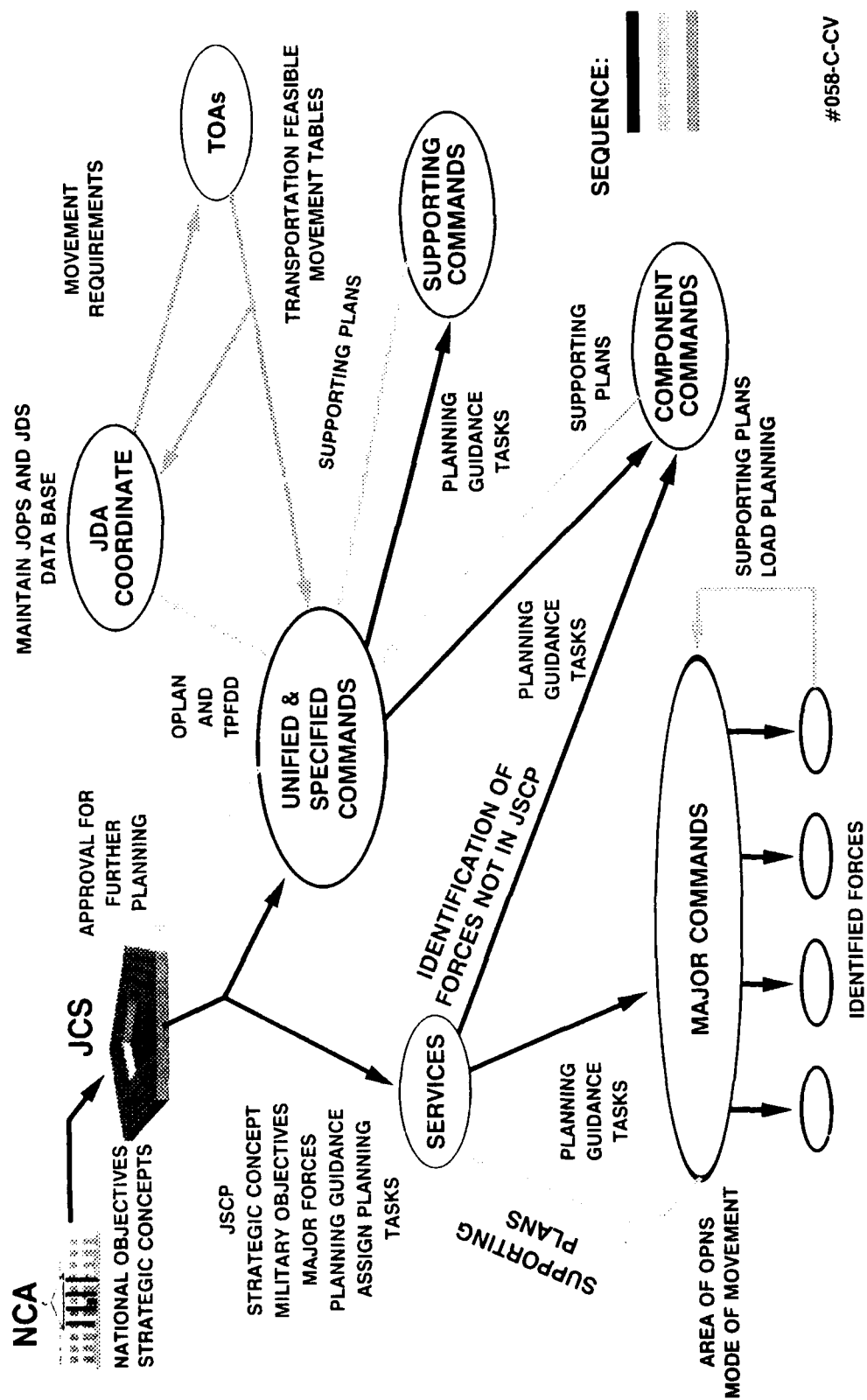
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# USTRANSCOM AND THE WORLD AROUND IT



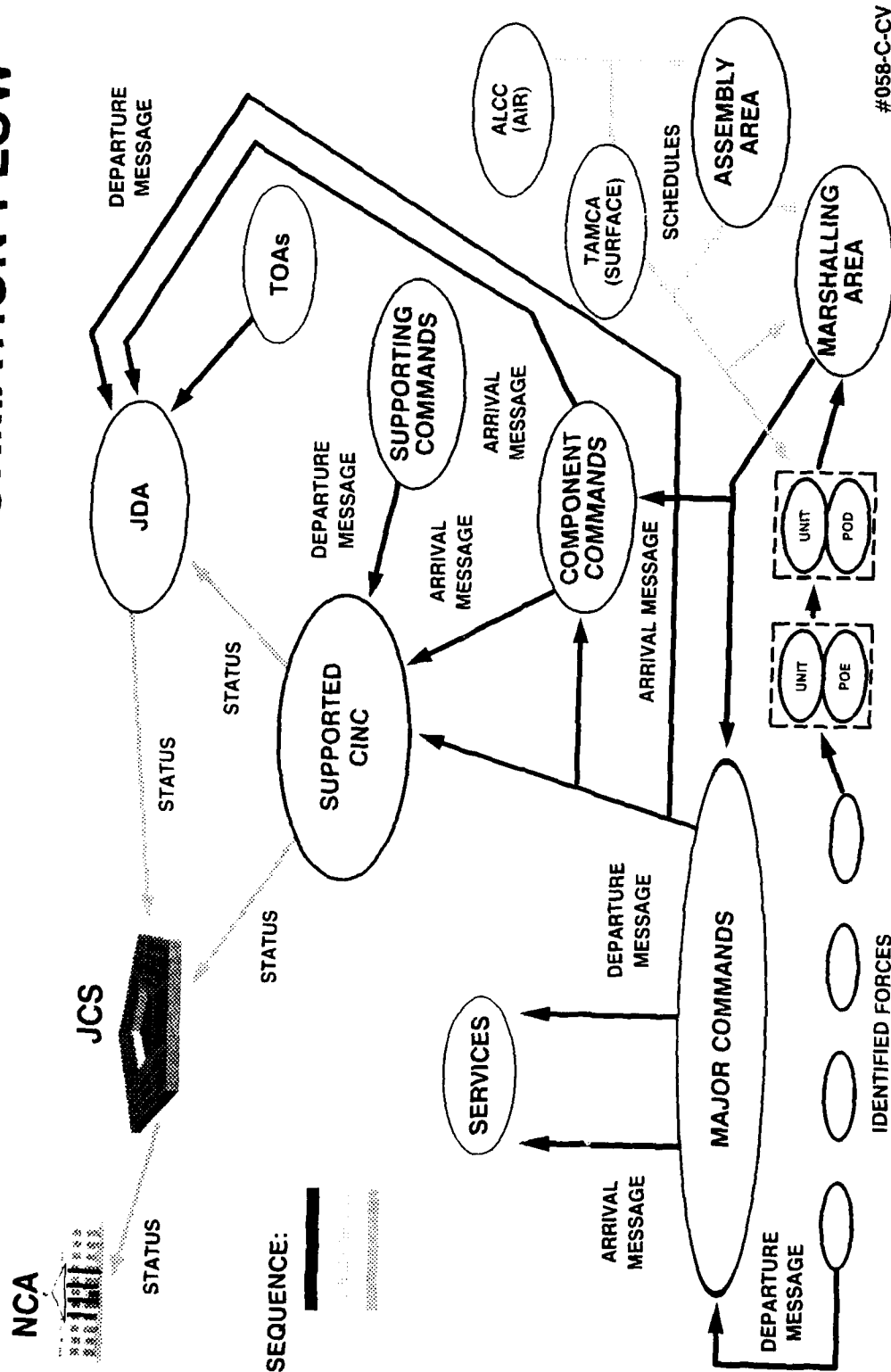
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# DELIBERATE PLANNING INFORMATION FLOW



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# EXECUTION MONITORING INFORMATION FLOW







# PLANNED SOFTWARE SYSTEMS SUPPORTING MOBILITY C3

FUNCTION TASK		ESTABLISH REQUIREMENT			UNIT MATERIEL STATUS	LIFT MANAGEMENT						OPERATIONAL FOLLOWING	
		UNIT PERSONNEL	MATERIEL	LIFT		INTRA CONUS		CONUS TO THEATER		INTRA THEATER			
						AIR	SURFACE	AIR	SURFACE	AIR	SURFACE		
DEPLOYMENT - PLANNING		JOPE RDPC MODES COMPES COMPASS AUEL SEMS	JOPE RDPC MODES	JOPE RDPC MODES MOBSCOPE ADAMS CMSS SEASTRAT ASPIUR CAMS CTMS DAMES	COMPASS AUEL AALPS SEMS MAPS								
- EXECUTION		JOPE COMPES COMPASS AUEL SEMS	JOPE	JOPE MOBSCOPE ADAMS ASPIUR CAMS DAMES CMSS CTMS COMPASS AUEL AALPS SEMS COMPES	UNITREP DEMSTAT	ASPIUR CAMS	ASPIUR CAMS DFRIF FMCS	EARLO CAPS ADAM III*	CTMS CAMS METS	EARLO TAMS TERMS CAPS ADAM III*	DASPE DAMMS-R	JOPE EARLO TAMS CTMS ASPIUR CAMS CMCS CTMS PACALDS OSGP DFRIF FMCS	JOPE EARLO TAMS DASPE DAMMS-R CAPS-ADAM III NAOMIS LOGMARS EDS DAAS AIFS CAIMS LIF DLANET WARS TERMS ARMS DFRIF MAIRS
SUSTAINMENT - MATERIEL			LFSMS MOD SARSS DWASP MJS SAMS SBSS UDAPS-ICP ACS CCSS SDS SPBS WARS DFAMS	ARMS UDAPS-SP CAIMS DISMS SAVMS SUADPS-RT	LFSMS MOD SARSS DWASP UDAPS-ICP WARS UADPS-SP CCSS CAIMS ARMS	TC ACCIS LARTS LATMS QUICK TRANS	TC ACCIS CAMS DFRIF FMCS	TC ACCIS DMES CAPS ADAM III	TC ACCIS CAMS NAOMIS METS	EDS CAPS ADAM III* TERMS	DAMMS-R DASPE CAPS ADAM III* TAMS	JOPE DAMMS-R TAMS DASPE CAPS-ADAM III NAOMIS LOGMARS EDS DAAS AIFS CAIMS LIF DLANET WARS TERMS ARMS DFRIF MAIRS	
- PERSONNEL		REAL FAMMS COMPES SIDPERS		REAL FAMMS COMPES SIDPERS		PAS- TRAM	PAS- TRAM	EARLO CAPS PACS MAIRS LRCSS TIPS AIMS		EARLO CAPS PACS TAMS LRCSS		EARLO JOPE CAPS PACS TAMS AIFS MAIRS LRCSS TIPS	
LEGEND NEW SYSTEM NOT APPLICABLE * ONLY IF PROCESSED THROUGH AN APDO													

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## **SOME MOBILITY C3 ISSUES IN PRIORITY ORDER**

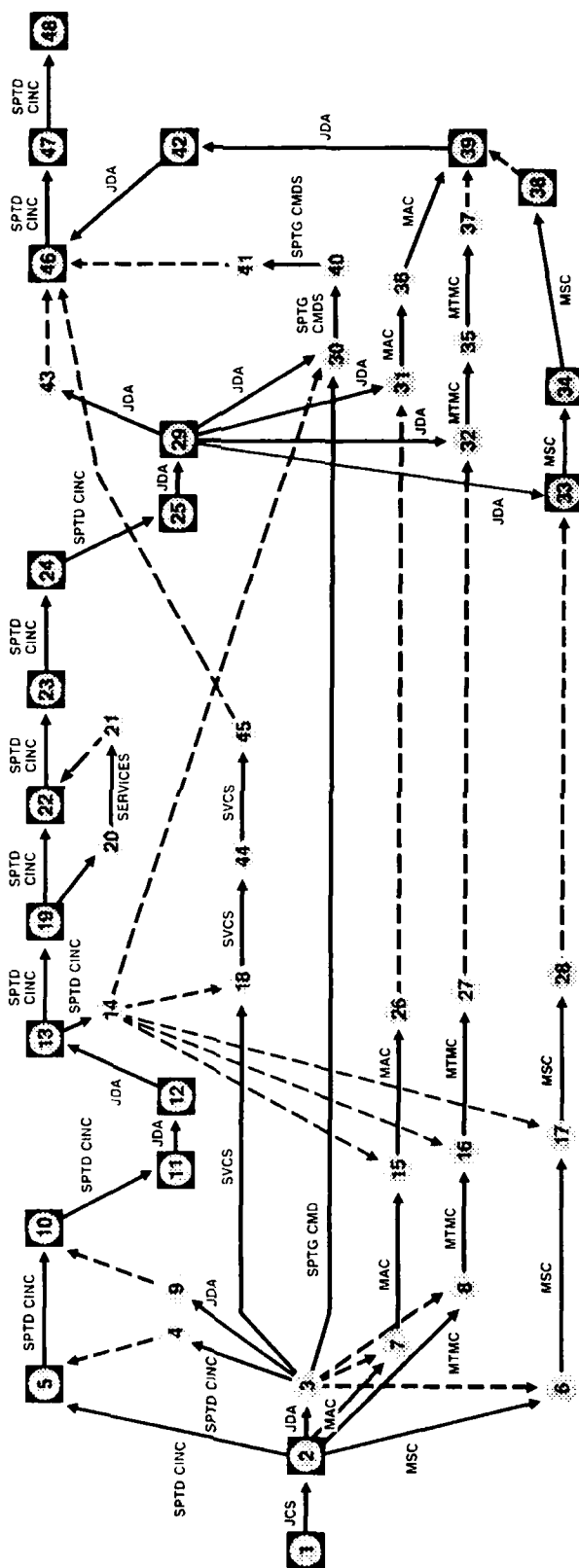
- 1. THE MOBILITY C3 SYSTEM NEEDS TO PROVIDE FASTER AND/OR MORE FLEXIBLE COA DEVELOPMENT AND/OR EXECUTION PLANNING.**
- 2. THE MOBILITY C3 SYSTEM NEEDS TO PROVIDE TIMELY, COMPLETE, AND ACCURATE INFORMATION ON THE LOCATION, STATUS, AND AVAILABILITY OF LIFT RESOURCES (AIR, LAND, AND OCEAN).**
- 3. THE MOBILITY C3 SYSTEM LACKS FLEXIBILITY. IN PARTICULAR, IT LACKS THE ABILITY TO STOP IN THE MIDDLE OF DEPLOYMENT EXECUTION AND CHANGE DIRECTION.**

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# ISSUE NUMBER 1

THE MOBILITY C3 SYSTEM NEEDS TO PROVIDE FASTER  
AND/OR MORE FLEXIBLE COA DEVELOPMENT AND/OR EXECUTION PLANNING

## COURSE OF ACTION DEVELOPMENT ACTIVITY NETWORK



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# **MAJOR USTRANSCOM CONTRACTUAL EFFORTS (CURRENT)**

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERFORMANCE</u>
N/A	N/A	N/A	N/A	N/A

# MAJOR USTRANSCOM CONTRACTUAL EFFORT (FUTURE)

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
<ul style="list-style-type: none"> <li>● C3I ARCHITECTURE               <ul style="list-style-type: none"> <li>- REQUIREMENTS DERIVATION</li> <li>- ARCHITECTURE DEVELOPMENT/ANALYSIS</li> <li>- IMPLEMENTATION PLAN/ACQUISITION STRATEGY</li> <li>- SYSTEM INTEGRATION/TRANSITION PLANNING</li> </ul> </li> <li>● C3I MASTER PLAN               <ul style="list-style-type: none"> <li>- ADP, COMMUNICATIONS, COMMAND CENTERS, INTELLIGENCE</li> </ul> </li> <li>● C3 PERFORMANCE ASSESSMENT REPORT</li> <li>● ASSESSMENT/EVALUATION ACTIVITY</li> </ul>	\$2M - \$10M	APR 88	OCT 88 - SEP 91

# FINAL MESSAGE

## ● DCA IS LOOKING FOR A NEW CONTRACTOR WITH SPECIALIZED ABILITIES

### 1. FAMILIARITY WITH THE DEPLOYMENT/RESUPPLY COMMUNITY

- JOINT DEPLOYMENT AGENCY
- JOINT CHIEFS OF STAFF
- TRANSPORTATION OPERATING AGENCIES
- UNIFIED & SPECIFIED COMMANDS
- SERVICES
- LOGISTICS AGENCIES
- INTELLIGENCE

### 2. FAMILIARITY WITH MOBILITY C3

- COMMUNICATIONS
- COMMAND FACILITIES
- COMPUTER/SOFTWARE SYSTEMS

### 3. ABILITY TO DO QUANTITATIVE OPERATIONS ANALYSIS ON IMPACT OF C3 IMPROVEMENTS ON EFFECTIVENESS OF MOBILITY OPERATIONS

### 4. ABILITY TO DEVELOP AND APPLY EMPIRICAL MEASUREMENTS TO THE MOBILITY C3 SYSTEM AND MOBILITY OPERATIONS

## ● THE COMPETITION STARTS SOON

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